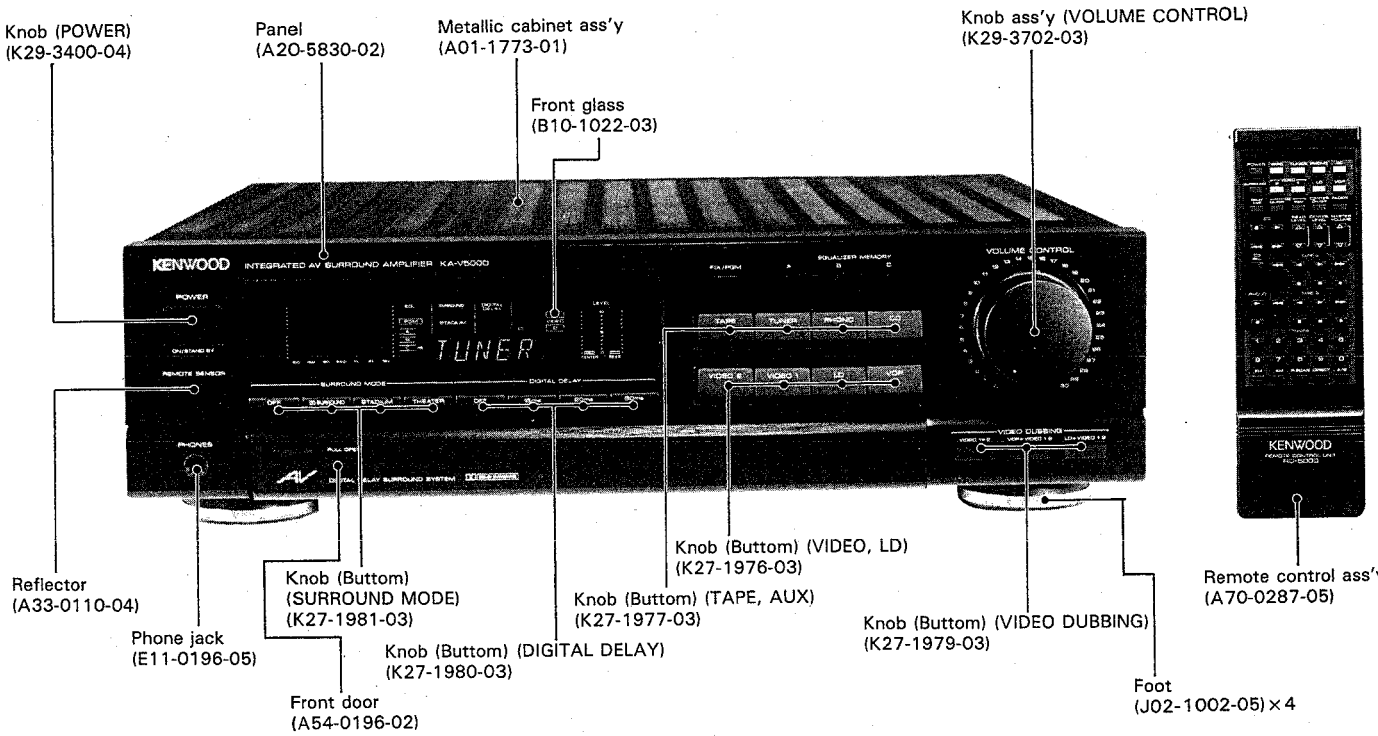
INTEGRATED AV SURROUND AMPLIFIER

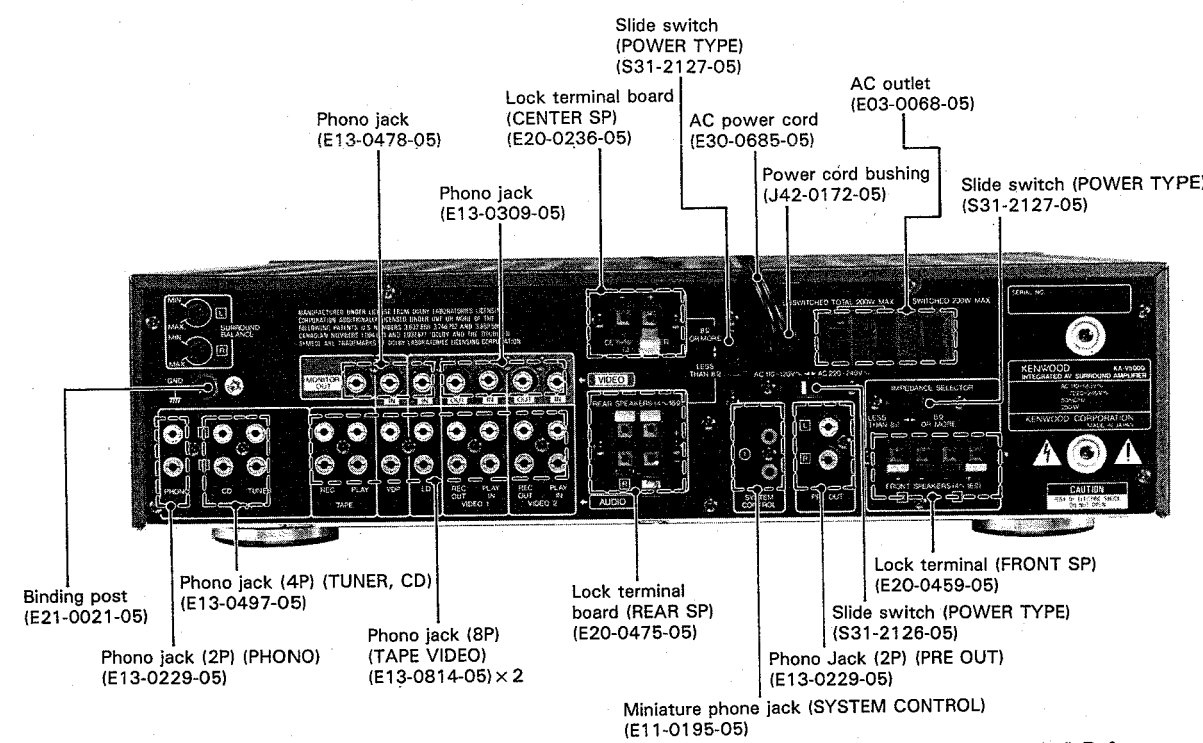
KA-V5000

SERVICE MANUAL

KENWOOD

B51-3670-00(T)588





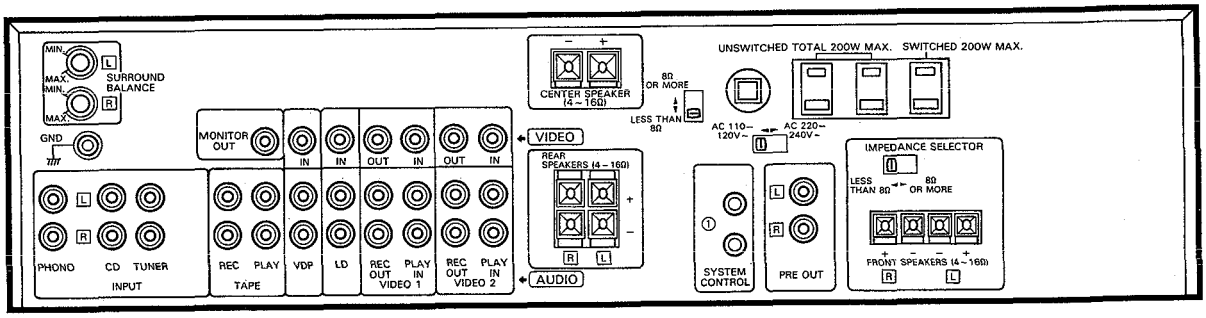
* Refer to parts list on page 53.

KA-V5000

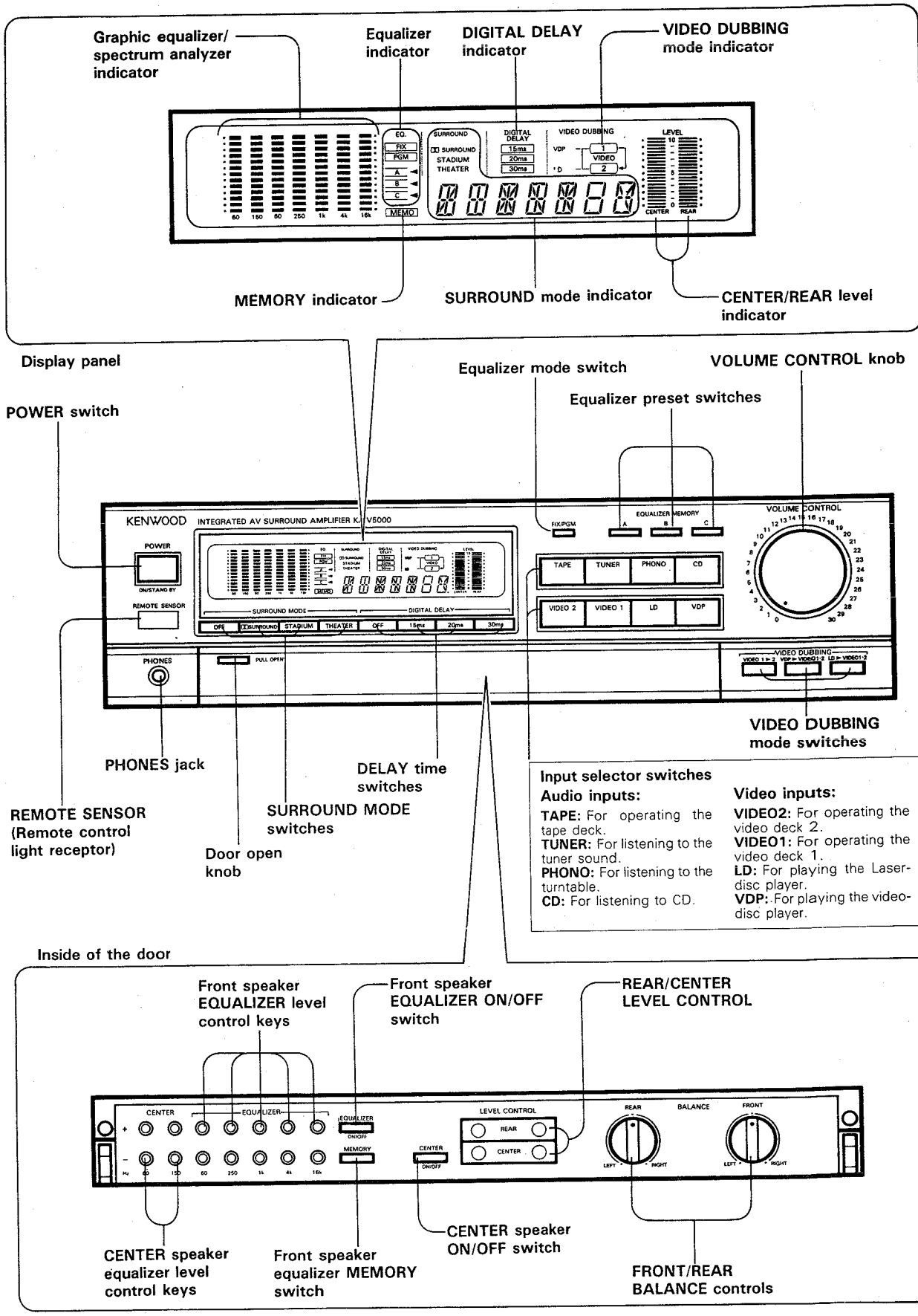
CONTENTS/CONTROLS AND INDICATORS

CONTENTS

CONTROLS AND INDICATORS



CONTROLS AND INDICATORS



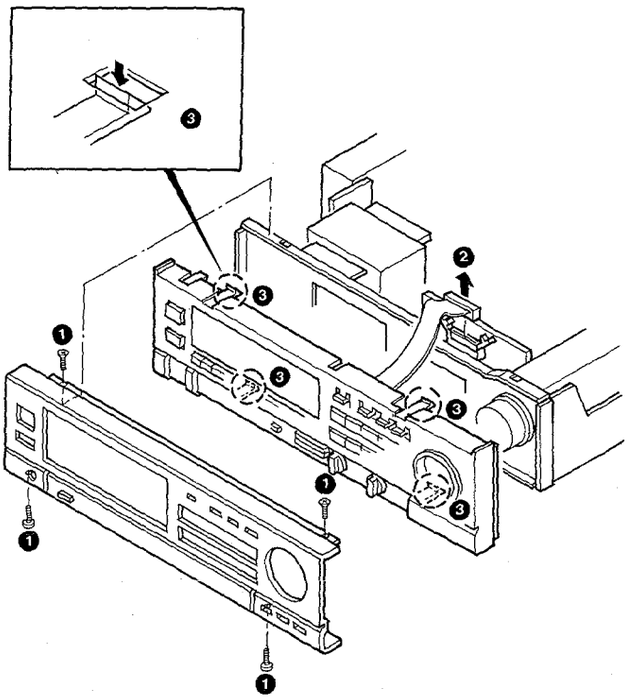
KA-V5000

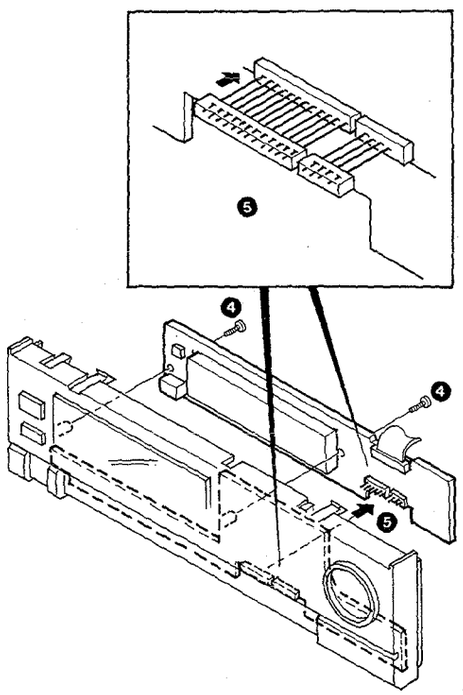
DISASSEMBLY FOR REPAIR

• Removing the front section

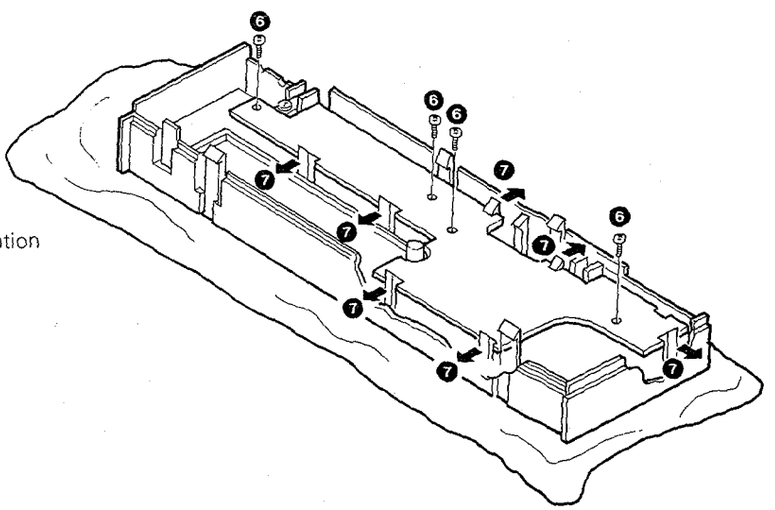
*** Take out the case beforehand.**

1. Remove the four screws (❶), and detach the panel.
2. Disconnect the flat cable (❷).
3. Undo the four catches (❸), and detach the sub panel.





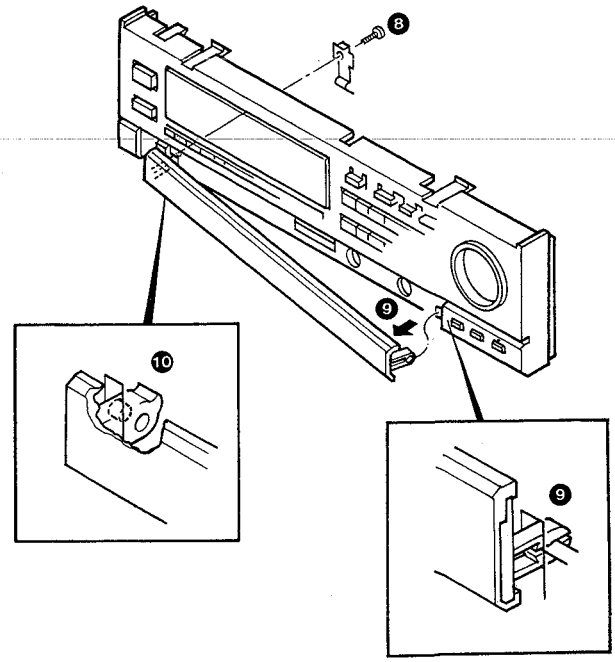
4. Remove the two screws (❹).
5. Disconnect the connector, then take out the display section board (❺).



6. Remove the four screws (❻).
7. Undo the seven catches (❼), then take out the operation section board.

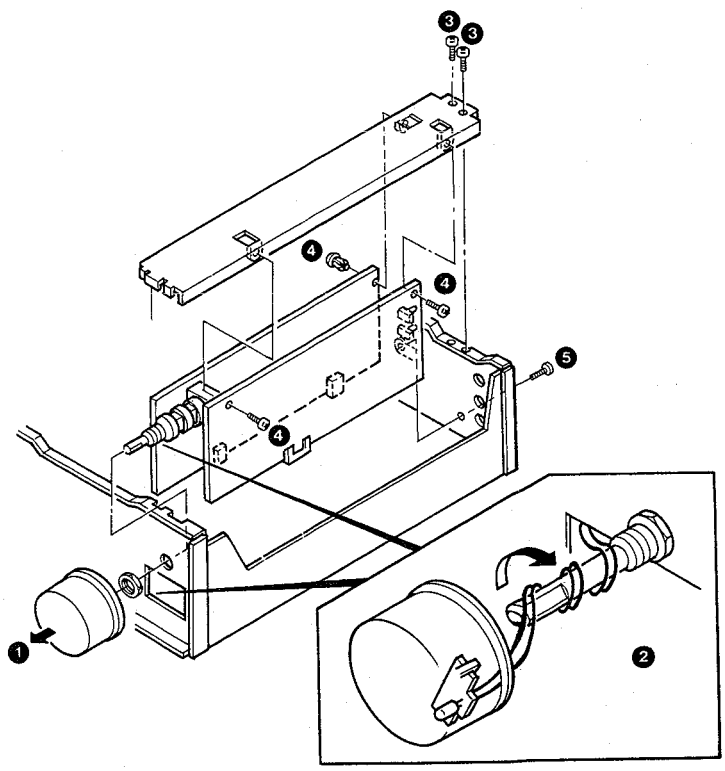
DISASSEMBLY FOR REPAIR

8. Remove the screw (❽), and detach the flat spring.
9. First, release the right side of the door (❾).
10. Then, release the left side of the door, and detach the door (❿).



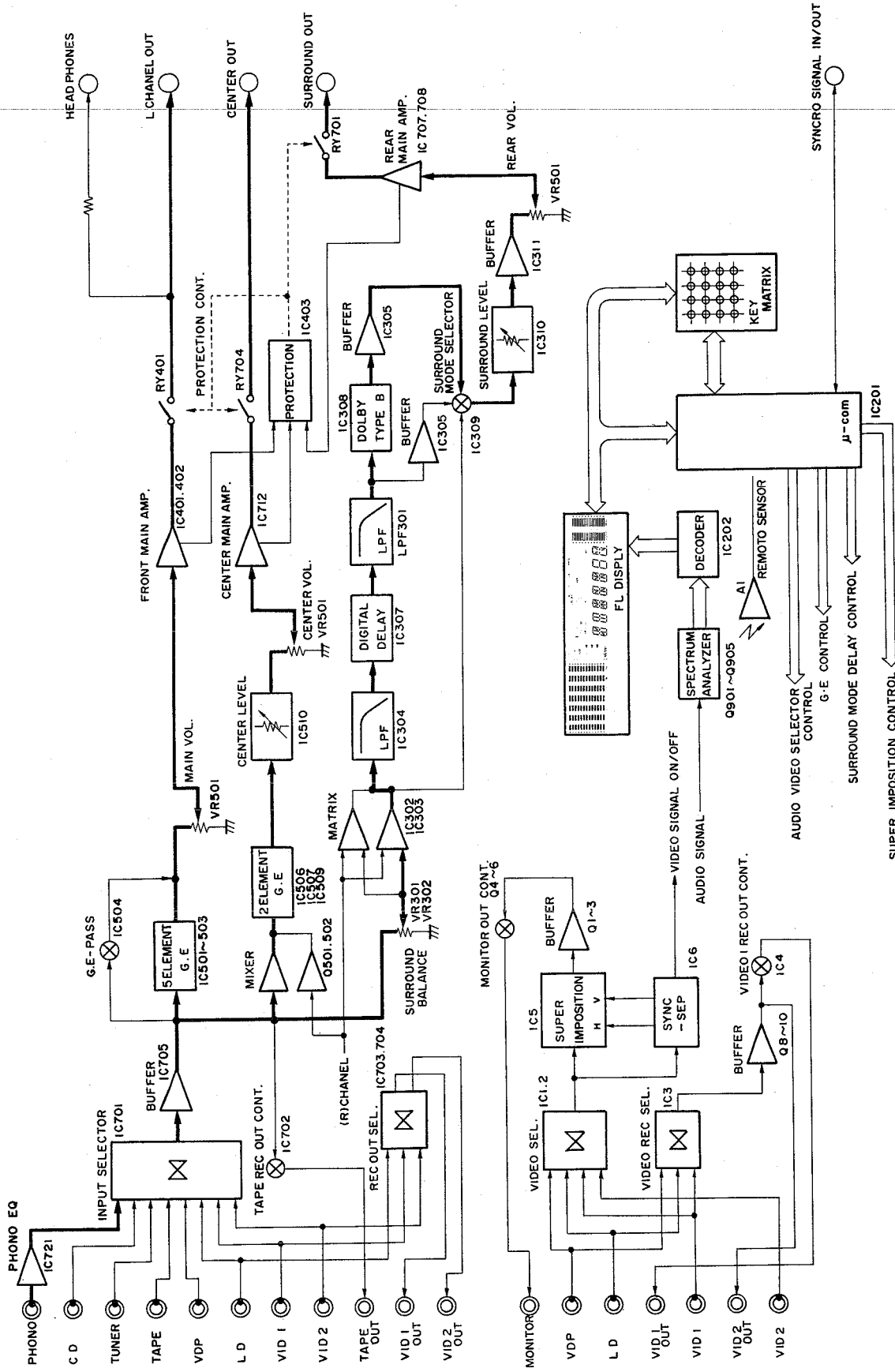
- **Removing the volume board**

1. Pull off the volume control knob (❶).
   Note: There is an LED put in inside the knob. Undo its catch and take out the LED board.
2. Handling method of lead wire of LED board (❷).
   As shown on the right, make three turns of the LED lead wire on the shaft, then attach the knob.
3. Remove the two screws (❸) of the fixture.
4. Remove the one push rivet and two screws (❹).
5. Remove the one screw ❺ in the rear.
6. Take out the board.



KA-V5000

BLOCK DIAGRAM



CIRCUIT DESCRIPTION

DESCRIPTION OF COMPONENTS

Main amplifier unit (X07-2480-81)

Component	Name	Use/Function	Operation/Condition/Compatibility
IC301	NJM4558D-A	Buffer IC	Rear matrix buffer amplifier
IC302	NJM4558D-A	Buffer IC	Rear delay line mixer
IC303	NJM4558D-A	Buffer IC	Rear "STADIUM" mode amplifier
IC304	NJM082D	L.P.F.	Digital delay input L.P.F.
IC305	NJM4558D-A	Buffer IC	DOLBY SURROUND buffer amplifier
IC306	NJM4558D-A	Buffer IC	Electric volume (Rear level) buffer amplifier
IC307	YM3411	Digital delay IC	Delay circuit (15 ms, 20 ms, 30 ms)
IC308	NE645N	Dolby IC	Dolby circuit (Type-B)
IC309	NJU4052BD	Switching IC	SURROUND mode select switch
IC310	TC9154AP	Volume IC	Rear level adjustment
IC311	NJM4558D-A	Buffer IC	Rear amplifier output buffer
IC312	μPC78L05J	AVR	+5 V
IC313	μPC79L05J	AVR	−5 V
IC401	μPC1298V	Driver IC	For power drive (Front L channel)
IC402	μPC1298V	Driver IC	For power drive (Front R channel)
IC403	μPC1237HA	Protection IC	All channel protection
IC404	μPC7805HF	AVR	+5 V
Q301,302	2SA733(A)(Q,P)	Switching	IC309 control switching Tr. 2SA933S(Q,R)
Q303,304	DTC124EN	Switching	IC309 control switching Tr.
Q401,402	2SC2878(B)	Switching	Front amplifier muting
Q403,404	2SD414	Temperature compensation	Idle current adjustment for power amplifier
Q405	2SC3280*5	Power Tr.	Front power transistor (L channel)
Q406	2SC3280*5	Power Tr.	Front power transistor (R channel)
Q407	2SA1301*5	Power Tr.	Front power transistor (L channel)
Q408	2SA1301*5	Power Tr.	Front power transistor (R channel)
Q409,410	2SC2631(R,S)	Over current detector	For protection circuit (Front amplifier)
Q411	2SA992(F,E)	Over current detector	For protection circuit (Front amplifier)
Q413	2SC1740S(Q,R)	Switching	Relay drive for AC OUTLET 2SC945(A)(Q,P)
Q414	2SD1266(Q,P)	Switching	Relay drive for AC OUTLET
Q415	2SB941(Q,P)	AVR	−30 V

Audio unit (X09-2890-81)

Component	Name	Use/Function	Operation/Condition/Compatibility
IC701	TC9163N	Selector switch	Audio input selector
IC702	LC4066BH	Switching IC	TAPE REC enable switch
IC703	LC4066BH	Switching IC	Audio REC OUT selector (L channel)
IC704	LC4066BH	Switching IC	Audio REC OUT selector (R channel)
IC705	NJM4558D-A	Buffer amplifier	
IC706	μPD74HC239C	Switching IC	For video selector control
IC707	μPC1225H	Power amplifier	Rear main amplifier driver (R)
IC708	μPC1225H	Power amplifier	Rear main amplifier driver (L)
IC709	μPC7812HF	AVR	+12 V
IC710	μPC7815HF	AVR	+15 V
IC711	μPC7915HF	AVR	−15 V

CIRCUIT DESCRIPTION

Component	Name	Use/Function	Operation/Condition/Compatibility
IC712	μPC1225H	Power amplifier	Center channel amplifier driver
IC713	NJM4558D-A	Buffer IC	CD input buffer
IC714	NJM4558D-A	Buffer IC	TUNER input buffer
IC716	NJM4558D-A	Buffer IC	TAPE input buffer
IC717	NJM4558D-A	Buffer IC	VDP input buffer
IC718	NJM4558D-A	Buffer IC	LD input buffer
IC719	NJM4558D-A	Buffer IC	VIDEO1 input buffer
IC720	NJM4558D-A	Buffer IC	VIDEO2 input buffer
IC721	NJM4558D-A	Buffer IC	PHONO EQ input buffer
Q701	DTA114ES	Switching Tr.	For IC702 control
Q702	2SA733(A)(Q,P)	Switching Tr.	For IC703, 704 control 2SA933S(Q,R)
Q703	DTC124EN	Switching Tr.	For IC702 control
Q704	DTC124EN	Switching Tr.	For IC703, 704 control
Q705	DTC124EN	Switching Tr.	For IC702 control
Q706~708	DTC124EN	Switching Tr.	For IC703, 704 control
Q709	DTA114ES	Switching Tr.	For IC703, 704 control
Q710	2SA733(A)(Q,P)	Switching Tr.	For IC703, 704 control 2SA933S(Q,R)
Q711,712	2SC2878(B)	Mute	Rear amplifier muting Tr.
Q713,714	2SD414	Temperature compensation	Rear amplifier idle current adjustment
Q715,716	2SD613*1	Power Tr.	For rear amplifier power transistor
Q717,718	2SB633*1	Power Tr.	For rear amplifier power transistor
Q719,720	2SC1845(F,E)	Over current detector	For protection circuit detector
Q721	2SA733(A)(Q,P)	Switching Tr.	Mute control 2SA933S(Q,R)
Q722	DTC124EN	Switching Tr.	Mute control
Q723	2SC2878(B)	Mute	Center amplifier mute transistor
Q724	2SD414	Temperature compensation	For center amplifier idle adjustment
Q725	2SD613*1	Power Tr.	For center amplifier power transistor
Q726	2SB633*1	Power Tr.	For center amplifier power transistor
Q727	2SC1845(F,E)	Over current detector	For protection circuit detector

Video control unit (X14-2490-81)

Component	Name	Use/Function	Operation/Condition/Compatibility
IC1	TA7348P	Selector IC	VIDEO signal selector
IC2	TA7347P	Selector IC	VIDEO signal selector
IC3	TA7348P	Selector IC	VIDEO REC OUT selector
IC4	LA7019	Switching IC	VIDEO1 REC OUT enable switch
IC5	MB88323A-K2	Super impose IC	MB88323A-K1
IC6	LVA516	Sync. separation IC	V-sync, H-sync
IC501	M5227P	G.E. amplifier	L channel amplifier (60 Hz-16 kHz)
IC502	M5227P	G.E. amplifier	R channel amplifier (60 Hz-16 kHz)
IC503	LC7522	Electric volume	G.E. control
IC504	LC4066BH	Analog switch	G.E.-pass switch
IC505	LB1630	Driver	Motor drive (For volume control)
IC506	NJM4558D-A	G.E. amplifier	Center channel amplifier (60 Hz, 150 Hz)
IC507	NJM4558D-A	Buffer	Center G.E. buffer
IC508	NJM4558D-A	Buffer	Electric volume buffer

CIRCUIT DESCRIPTION

Component	Name	Use/Function	Operation/Condition/Compatibility	
IC509	TC9170AP	Electric volume	Center G.E. control	
IC510	TC9154AP	Electric volume	Center level adjustment	
IC511	NJM4558D-A	Buffer	For front signal	
IC512	μPC78L06J	AVR	+6 V	
IC901	NJM4558D-A	BPF	For spectrum analyzer display (60Hz, 250Hz)	
IC902	NJM4558D-A	Buffer	Spectrum analyzer display amplifier	
IC903	NJM4558D-A	BPF	For spectrum analyzer display (1KHz, 4KHz)	
IC904	NJM4558D-A	BPF	For spectrum analyzer display (16KHz)	
IC905	NJM4558D-A	BPF	For spectrum analyzer display (60Hz, 150Hz)	
Q906	TA78L006AP	AVR	+6 V (V_{REF})	
Q1~3	2SC1740S(Q,R)	Video amplifier	Monitor output buffer	2SC945(A)(Q,P)
Q4	2SC1740S(Q,R)	Switch Tr.	Video signal ON/OFF	2SC945(A)(Q,P)
Q5	2SA733(A)(Q,P)	Switch Tr.	Video signal ON/OFF	2SA933S(Q,R)
Q6	2SC1740S(Q,R)	Switch Tr.	Video signal ON/OFF	2SC945(A)(Q,P)
Q7	2SC1740S(Q,R)	Switch Tr.	For IC4 control	2SC945(A)(Q,P)
Q8~10	2SC1740S(Q,R)	Video amplifier	Video REC OUT buffer	2SC945(A)(Q,P)
Q11	2SA733(A)(Q,P)	Switch Tr.	For IC4 control	2SA933S(Q,R)
Q12	2SC1740S(Q,R)	Buffer	Video REC OUT buffer	2SC945(A)(Q,P)
Q13	2SC1740S(Q,R)	Buffer	Monitor out buffer	2SC945(A)(Q,P)
Q14	2SK364(GR,BL)	Buffer	Monitor out buffer	
Q15	2SC1740S(Q,R)	Detector	V-sync.	2SC945(A)(Q,P)
Q501,502	2SC1740S(Q,R)	Buffer	Center channel mixer	2SC945(A)(Q,P)
Q503	2SA733A(Q,P)	Switch Tr.	G.E. ON/OFF control	2SA933S(Q,R)
Q504,505	DTC124EN	Switch Tr.	G.E. ON/OFF control	
Q506,507	2SC1740S(Q,R)	Flip-Flop	LED winker (For volume knob)	2SC945(A)(Q,P)
Q903,904	2SC1740S(Q,R)	Buffer	L, R channel mixer	2SC945(A)(Q,P)

Display unit (X25-3610-81)

Ref. No.	Name	Use/Function	Operation/Condition/Compatibility	
IC201	μPD75206CW-104	Microprocessor		
IC202	LC7565	Decoder	For spectrum analyzer/G.E. display	
IC203	PST529C	Reset	For IC201 reset	
IC204	TC74HC123P	Reset	For video signal reset	
Q201	2SC1740S(Q,R)	Switch	For reset signal inverter	2SC945(A)(Q,P)
Q202	2SD882(Q,P)	Reset switch	For FL display (−30 V reset circuit)	
Q203	2SC1740S(Q,R)	Reset switch	For FL display (−30 V reset circuit)	2SC945(A)(Q,P)
Q204	2SA733(A)(Q,P)	Reset switch	For FL display (−30 V reset circuit)	2SA933S(Q,R)
Q205	2SA992(F,E)	Reset switch	For FL display (−30 V reset circuit)	

CIRCUIT DESCRIPTION

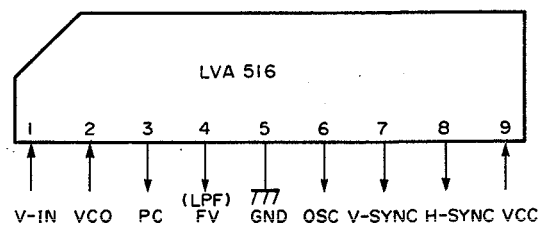
IC6: LVA516 (X14-2590-81)
SYNC SEPARATION

Outline:

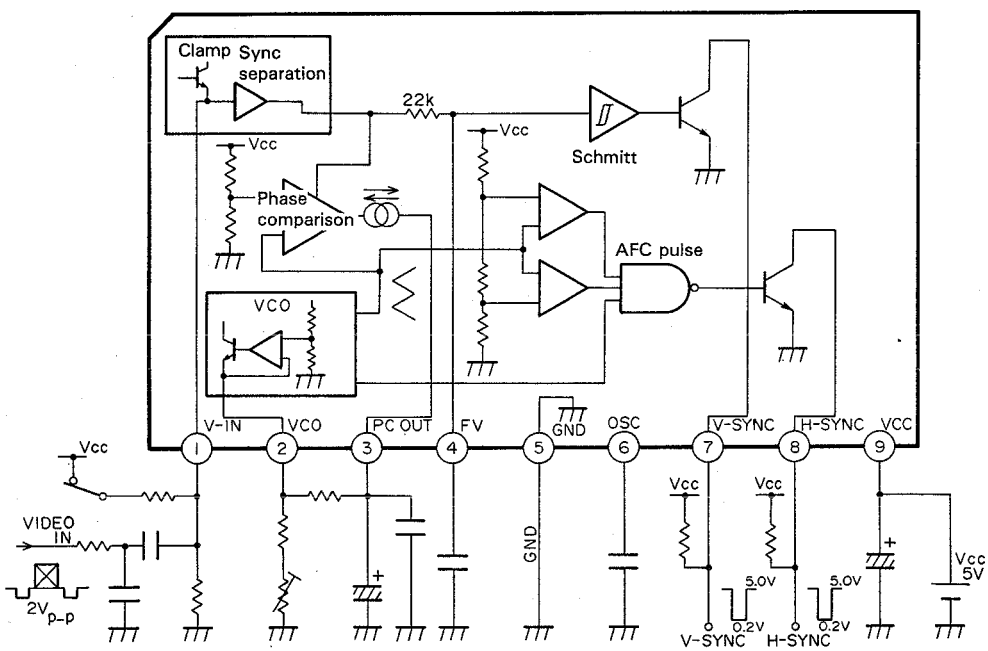
When the video signal is input to pin 1 (V-IN), the VCO that is performing free-run oscillation (around 15 kHz) inside is locked with the horizontal sync signal (15.73 kHz) of the input video signal by a PLL circuit.
At this time, when the oscillation frequency of the VCO is away around ±1 kHz from 15.73 kHz, the VCO cannot be satisfactorily locked with the input, so that there occurs disturbed display of characters (superimposed) with unstable sync.

From pins 7 (V-SYNC) and 8 (H-SYNC) are output respectively the vertical sync and horizontal sync signals, which are used as the reference sync signal for the superimpose IC. In addition, V-SYNC judges between the presence and absence of the video signal converted to DC to inform the judgement to the microprocessor. When the judgement is that no video signal exists, the superimpose IC produces a blue background (blue screen) inside.

Terminal connection diagram



Block diagram:



* Free-run frequency is adjusted by VR1 with SW1 ON. (15.73 kHz)

Pin functions

Pin No.	Name	I/O	Function
1	VIN	I	VIDEO INPUT
2	VCO	I	SYNC VCO. (15.73 kHz)
3	PC	O	PLL PHASE COMPARATOR OUT
4	FV	O	V-SYNC CHECK
5	GND	—	
6	OSC	O	TIMING CLOCK
7	V-SYNC	O	V-SYNC OUT
8	H-SYNC	O	H-SYNC OUT
9	Vcc	I	+5 V

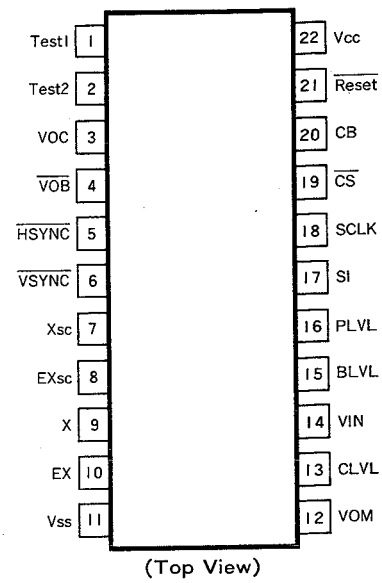
CIRCUIT DESCRIPTION

IC5: MB88323A (X14-2590-81) SUPER IMPOSE IC

Outline

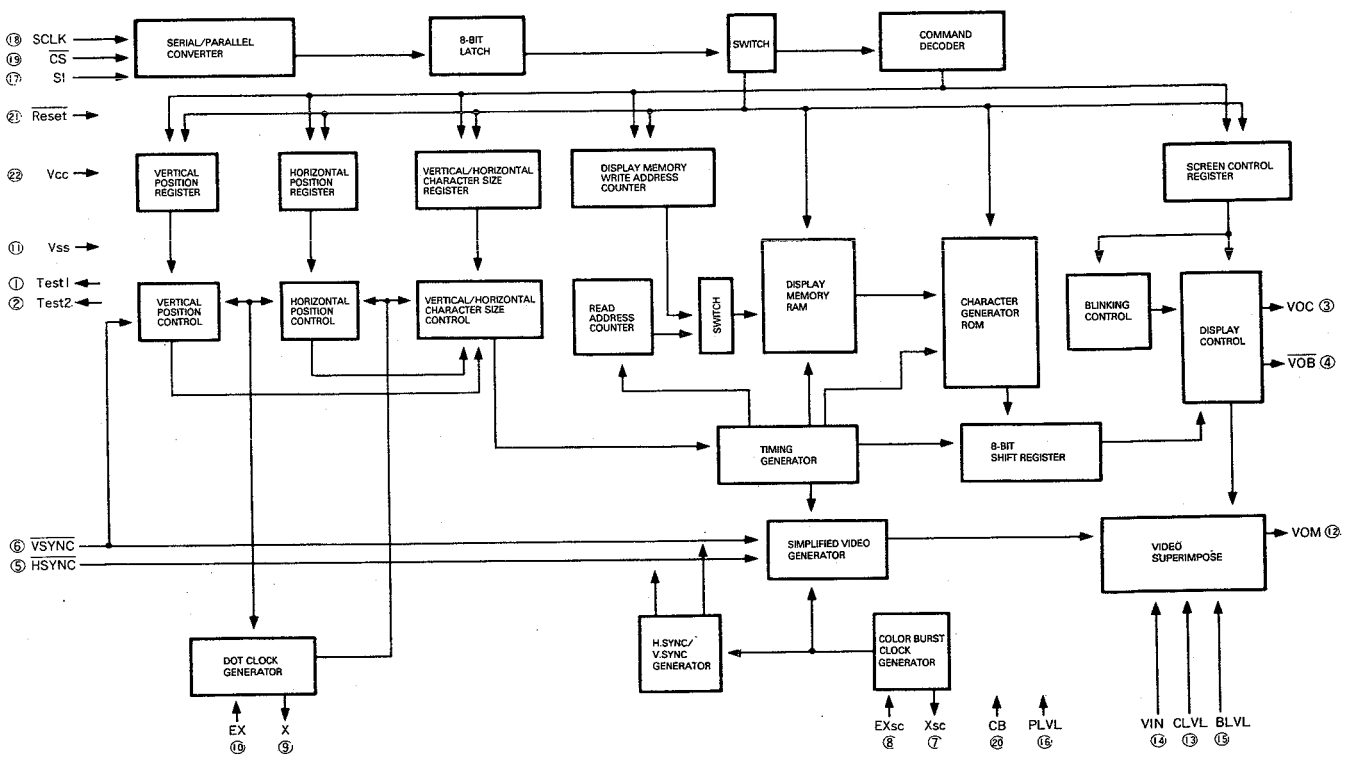
The MB88323A-K2 is a display controller CMOS LSI for use in displaying characters and patterns on a TV display, and is based on microprocessor control.
The number of display characters is 20 columns x 9 lines. The LSI incorporates a character generator ROM for 64 characters, and is capable of displaying alphanumerics and special characters as well as Japanese letters such as Kanji, Hiragana and Katakana. The LSI also incorporates a programmable character generator RAM for 62 characters. By putting character patterns in the RAM, a versatile display is made possible, including a semi-graphics display consisting of linked character patterns, as well as the alphanumerics, special characters, and Japanese Kanji, Hiragana and Katakana letters.
The dot interpolation facility makes it possible to display smooth oblique lines, and the character size can be expanded in 8-bit increments such as 16 x 16 dots.
The display output can be superimposed on the TV video signal or VTR output signal, and the superimposed picture can also be recorded onto a VTR.

Pin Configuration



(Top View)

Internal Block Diagram



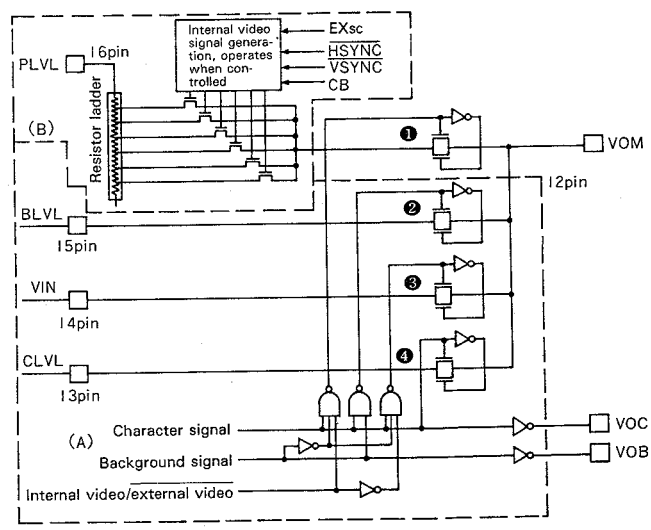
CIRCUIT DESCRIPTION

Explanation of Pins

Pin Name	Pin No.	Input/ Output	Function
EXtal Xtal	10 9	Input Output	Terminals for connecting the external dot clock generator
$\overline{\text{Reset}}$	21	Input	TVDC reset input terminal. The TVDC operation is initialized when $\overline{\text{Reset}}$ is at a "Low" level. When power is turned ON, the V sync signal must be input to the VSYNC terminal. This is a hysteresis input.
$\overline{\text{HSYNC}}$	5	Input	Horizontal sync signal input terminal. A hysteresis input.
$\overline{\text{VSYNC}}$	6	Input	Vertical sync signal input terminal. A hysteresis input.
CS	19	Input	Chip Select terminal, which is set to a "Low" level when a serial transfer is required. A hysteresis input.
SCLK	18	Input	Serial clock input terminal, for use in a serial transfer. A hysteresis input.
SI	17	Input	Display control data input terminal. A hysteresis input.
VIN	14	Input	Video signal input terminal. (Analog input)
CLVL	13	Input	Character level input terminal. (Analog input)
BLVL	15	Input	Edge and background level input terminal. (Analog input)
VOM	12	Output	Output terminal for the superimposed signal of the video signal, character signal and edge or background signal. (Analog output).
VOC	3	Output	Character signal output terminal.
$\overline{\text{VOB}}$	4	Output	Edge or background signal output terminal.
EXsc Xsc	8 7	Input Output	Terminals for connecting the external color burst clock generator (7.15909 MHz or 14.31818 MHz). Also used for the internal sync signal generation in Video mode 2.
CB	20	Input	Used to select whether the color burst is to be present or not when Video mode 2 is set.
PLVL	16	Input	Pedestal level input terminal. When Video mode 2 is set, the pedestal level of the internally-generated simplified video signal shall be adjusted to that of the external video signal.
Vcc	22	Input	+5V external power supply terminal.
Vss	11	Input	GND.
Test 1 Test 2	1 2	Output	Chip testing terminals, which are usually open.

When superimposing characters on external video signal

The video signal which is input from pin 14 of the IC is output to pin 12 (VOM) by way of an analog switch (❸). Thus, analog switch (❸) turns OFF at the position where characters are superimposed and analog switch (❷) turns ON.
At this time, the voltage at pin 15 is output to pin 12 (VOM). If this voltage level is low, a black signal appears. Subsequently, analog switch (❷) turns OFF and analog switch (❹) turns ON. Thus, as pin 13 is higher in voltage level than pin 15, a nearly white signal appears.
Like this, by the ON/OFF operation of analog switches (❷), (❸) and (❹), signals of two levels are superimposed on the video signal. (One level is for character signal and the other level is for character fringe signal.)

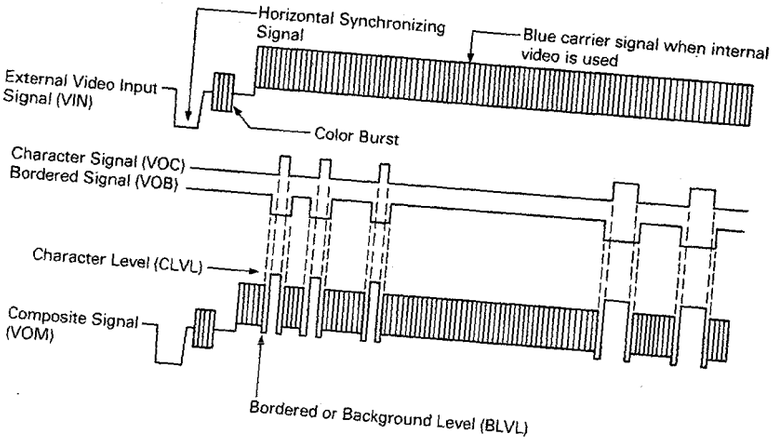


MB88323A-K2 Analog Switches

CIRCUIT DESCRIPTION

When generating internal video signals

When no video signal is input, the IC generates video signals to output them. In this case, analog switch (❶) is ON and others are OFF. Internal video signals are generated by dividing 7.15909 MHz (twice the frequency of color subcarrier).

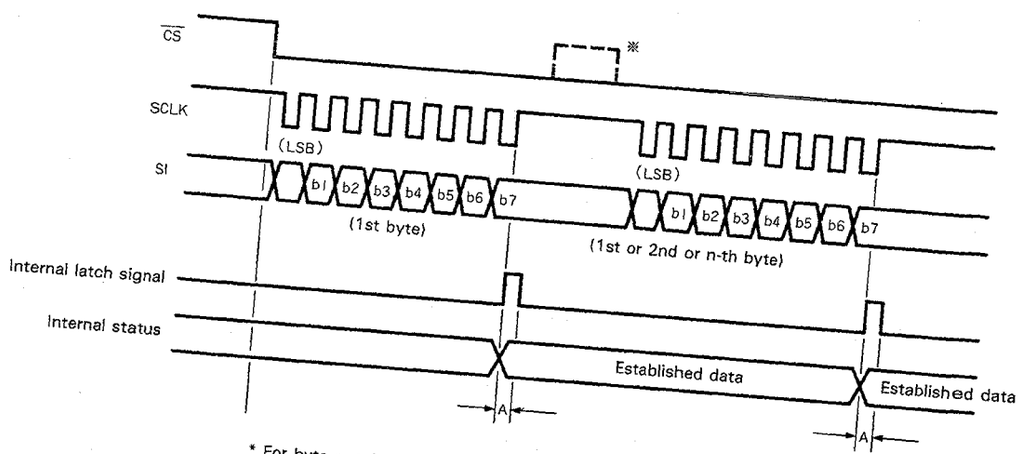


Data transfer system and command write format

The display control commands and data are written by means of 8-bit serial transfer.

For the serial transfer, the $\overline{CS}$ terminal should be set to Low. While the $\overline{CS}$ terminal is Low, data of any byte in the command, i.e. the 1st byte, 2nd byte,... to the n-th byte., can be transferred.

Each unit of data consists of 8 bits, which are shifted in sequence from the LSB (Least Significant Bit) and input to the SI terminal. As shown in Fig. 5, data is input and shifted at the positive-going edge of the shift clock input at the SCLK terminal. The transferred data is latched internally at the positive-going edge of the shift clock for the 8th bit.



* For byte synchronization, the $\overline{CS}$ terminal can be returned to High temporarily then turned Low again in the middle of serial data transfer.

Serial Transfer Timing

CIRCUIT DESCRIPTION

IC307: YM3411 (X07-2480-81)
DIGITAL DELAY IC

Outline

YM3411 is a 16-pin DIP CMOS IC with high-grade digital surround function making the best of digital audio processing technology.

The internal digital processing is of 14-bit in a floating-point system.

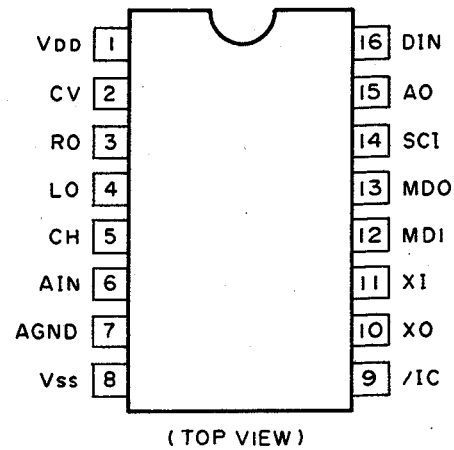
The 1-channel analog signal is converted into a digital form by a built-in A/D converter. Then, for providing the surround effect according to the mode, the 2-channel digital signals subjected to the delay process making use of a digital audio processing and a built-in RAM are output converted into analog forms by built-in D/A converters. The sampling rate of the A/D conversion is 49.7 kHz. That of the D/A conversions, subject to 2x over-sampling, is 99.4 kHz.

There are available four modes. Mode setting is made by 2-pin "H"/"L" combination.

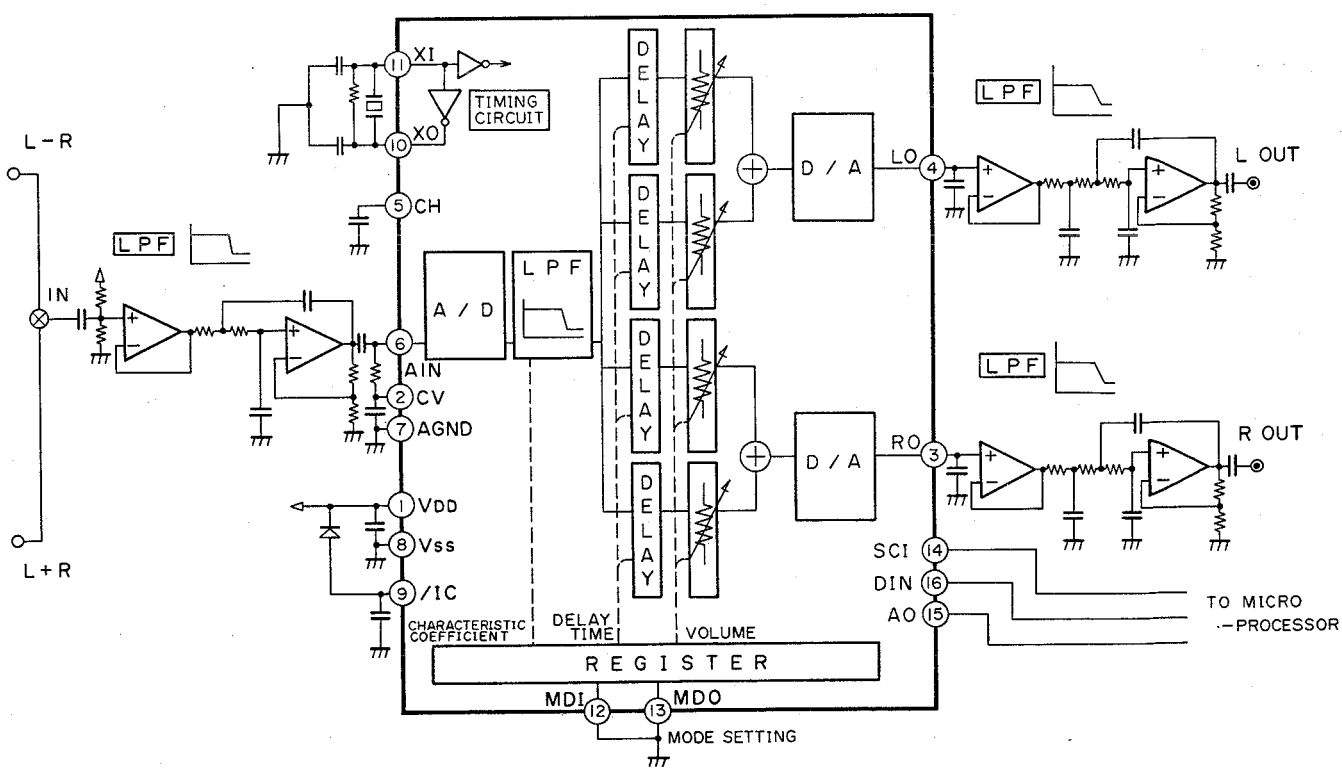
Out of these four modes, one is a manual mode, in which it is possible to control the delay, frequency response and output level by inputting data from an external means such as a personal computer, etc.

Any of the other three modes is a preset mode, the use of which permits ease at realizing a surround effect without a personal computer.

Terminal connection diagram



Block diagram



CIRCUIT DESCRIPTION

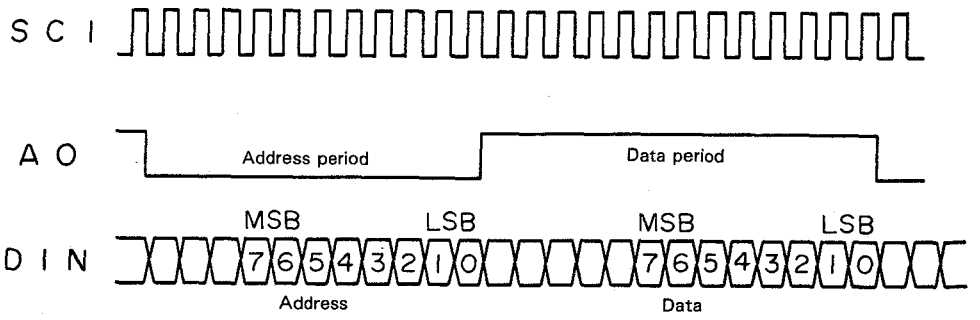
Pin functions

Pin No.	Name	I/O	Function
1	V_{DD}	—	+5 V power supply pin
2	CV	O	A/D conversion reference voltage (+2.5 V) output pin
3	RO	O	Rch D/A conversion analog signal output pin
4	LO	O	Lch D/A conversion analog signal output pin
5	CH	O	Externally connected sample-hold capacitor pin
6	AIN	I	Analog signal input pin
7	AGND	—	Ground this pin and the input A/D conversion, output D/A conversion ground pin (Vss) outside in common.
8	Vss	—	Digital system, system ground pin
9	/IC	*I	Reset pin
10	XO	O	Crystal oscillator connection pin
11	XI	I	Crystal oscillator connection pin (system clock pulse input pin)
12	MD_1	*I	Mode setting pin
13	MDO	*I	Mode setting pin
14	SCI	I	Personal computer data shift clock pulse input pin
15	AO	I	Personal computer address/data identification signal input pin
16	DIN	I	Personal computer data input pin

* Any pin marked * has a pull-up resistance inside.

Manual mode

Various effects can be created by inputting necessary parameters from pins SCI, AO and DIN by a personal computer, etc.
Input is made in the order of address and then data in the signal timing shown below.

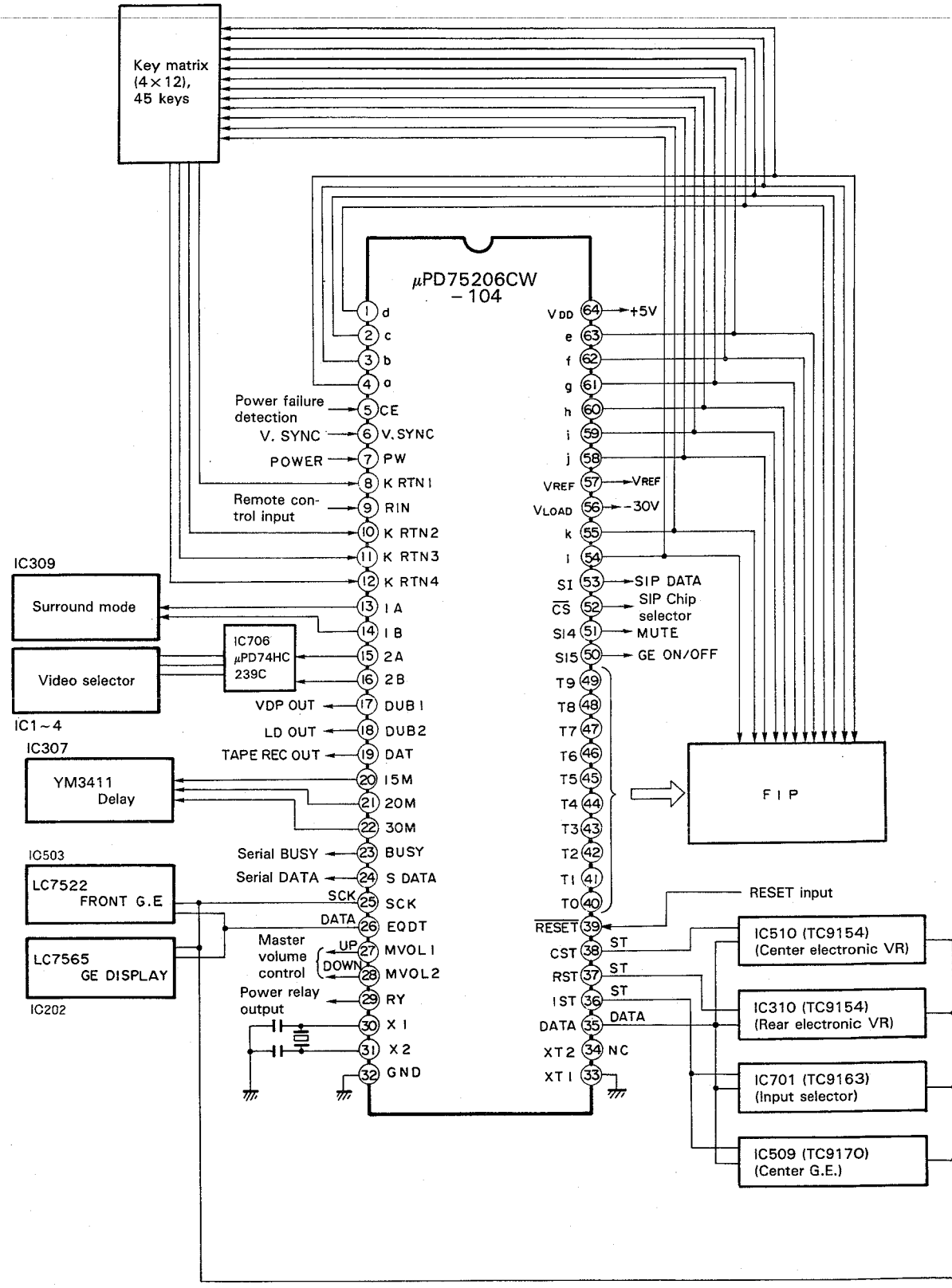


Signals AO and DIN are taken in at each leading edge of clock pulse SCI. For this purpose, the values of signals AO and DIN need to be stable at each rise time of clock pulse SCI.
Even when sending of SCI. AO and DIN, when unused, is stopped, there occurs no problem.
However, after valid final data AO changes, it is necessary to send one pulse of SCI.

CIRCUIT DESCRIPTION

IC201: μPD75206CW-104 (X25-3610-81)
MICROPROCESSOR

Terminal connection diagram



CIRCUIT DESCRIPTION

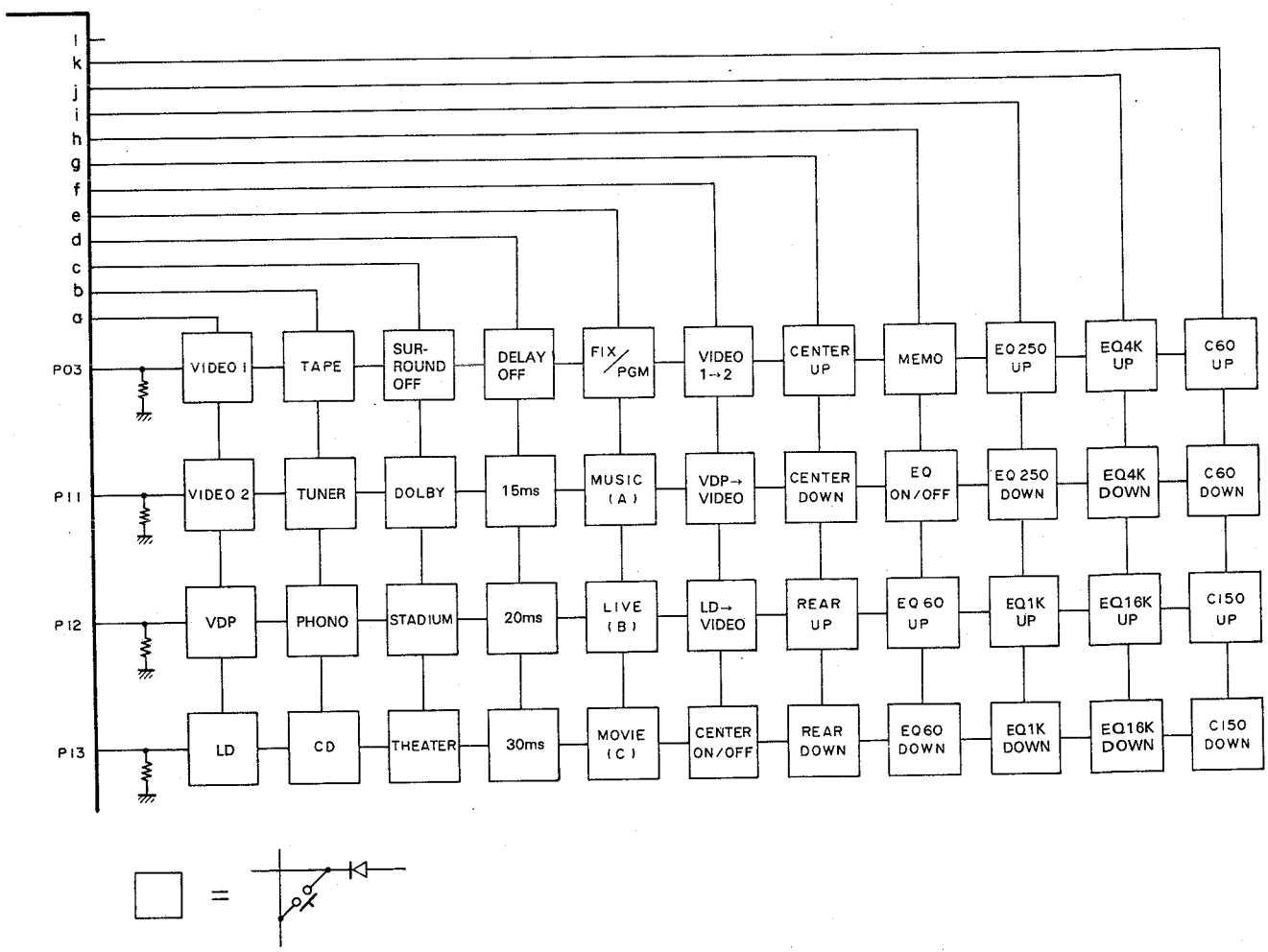
Pin functions

Pin No.	Name	Active	I/O	Function
1	d		O	Segment output (key matrix) d
2	c		O	Segment output (key matrix) c
3	b		O	Segment output (key matrix) b
4	a		O	Segment output (key matrix) a
5	CE	H	I	Power failure input
6	V.SYNC		I	V-sync input
7	PW		I	POWER
8	K RTN 1	H	I	Key data input 1
9	R IN		I	Remote control input
10	K RTN 2	H	I	Key data input 2
11	K RTN 3	H	I	Key data input 3
12	K RTN 4	H	I	Key data input 4
13	1A		O	Surround mode selection
14	1B		O	
15	2A		O	Video input selection
16	2B		O	
17	DUB 1	H	O	VDP REC OUT selection
18	DUB 2	H	O	LD REC OUT selection
19	DAT	H	O	TAPE REC OUT inhibit
20	15M	H	O	YM3411 control (Delay)
21	20M	H	O	
22	30M	H	O	
23	BUSY	H	O	Serial busy system control
24	SDATA		O	Serial data system control
25	SCK		O	Clock pulse output for MB88323A, TC9514, TC9163, LC7522, LC7565
26	EQDT		O	Serial data (for equalizer control)
27	MVOL 1	H	O	Master volume control output (UP)
28	MVOL 2	H	O	Master volume control output (DOWN)
29	RY	H	O	Power relay
30	X1		I	CLOCK
31	X2		I	
32	GND		—	GND
33	XT1		—	GND
34	XT2		—	NC
35	DATA		O	Electronic VR, input selector data output
36	IST	↑⎍	O	Input selector center G.E strobe
37	RST	↑⎍	O	Rear electronic VR strobe
38	CST	↑⎍	O	Center electronic VR strobes
39	$\overline{\text{RESET}}$	L	I	Microprocesor reset pin
40 ~ 49	T0 ~ T9		O	Digit output
50	S15	H	O	G.E ON/OFF
51	S14	H	O	Mute output
52	$\overline{\text{CS}}$	L	O	Chip selector for superimpose
53	SI	H	O	Data selector for superimpose

CIRCUIT DESCRIPTION

Pin No.	Name	Active	I/O	Function
54	l		O	Segment output l
55	k		O	Segment output k
56	V_{LOAD}		—	FL power supply (−30 V)
57	V_{REF}		O	Reference voltage check pin
58	j		O	Segment output j
59	i		O	Segment output i
60	h		O	Segment output h
61	g		O	Segment output g
62	f		O	Segment output f
63	e		O	Segment output e
64	V_{DD}		—	+5 V

- **Key matrix**

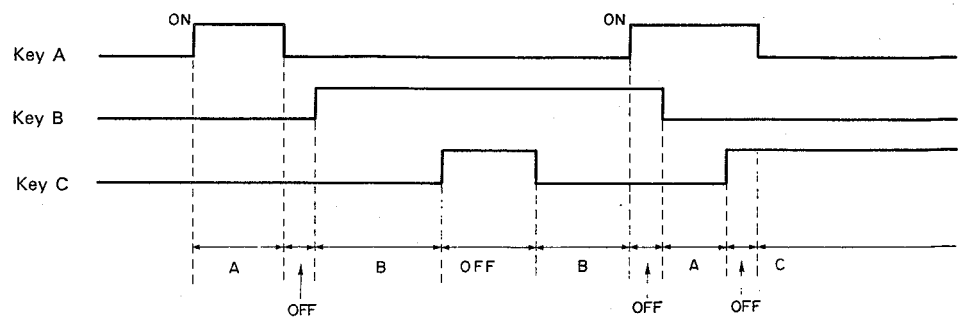


CIRCUIT DESCRIPTION

- **Key take-in**

1) The key take-in method is a 2-key lock-out system, in which only when a key is pressed singly, this key is accepted, while when two or more key are pressed, they are handled as key OFF. (This key take-in method is the same as that in the remote control.)

2) The chattering absorb time is 10 msec.



Microcomputer Hardware Reset Method (How to reset to the same initial setting as the factory setting)

(1) Disconnect the power cord.
(2) Short-circuit the microcomputer's VDD (pin 64) and GND for 1 to 2 seconds.
(3) Connect the power cord and switch the power ON.

At this time, the display should shown the following.

EQ: OFF (Flat)	MEMORY: FIX, A
SURROUND: OFF	DELAY: OFF
SELECTOR: CD	DUBBING: VIDEO 1 →VIDEO 2
REAR LEVEL: 5	CENTER LEVEL: 5

To bring the microcomputer pin in contact with the chassis, insert a metal stick through the notch provided on the front sub-chassis by the side of the power transformer.

KA-V5000

ADJUSTMENT/REGLAGES

ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	AMPLIFIER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	IDLE CURRENT (FRONT AMPLIFIER)	–	Connect a DC voltmeter across CN409(L) and CN410(R). (X07-248 A/2) (CKA-50201-01 A/2)	VOLUME:0	VR401(L) VR402(R) (X07-248 A/2) (CKA-50201-01 A/2)	4.5mV	(a)
2	IDLE CURRENT (REAR AMPLIFIER)	–	Connect a DC voltmeter across TP2(L) and TP1(R). (X09-289 A/2) (CKA-50201-02 A/2)	VOLUME:0	VR702(L) VR701(R) (X09-289 A/2) (CKA-50201-02 A/2)	4.5mV	(b)
3	IDLE CURRENT (CENTER AMPLIFIER)	–	Connect a DC voltmeter across TP3. (X09-289 A/2) (CKA-50201-02 A/2)	VOLUME:0	VR703 (X09-289 A/2) (CKA-50201-02 A/2)	4.5mV	(c)
4	VCO	No input	Connect a frequency counter to TP4. (X14-259 C/5) (CKA-50201-03 C/5)	–	VR1 (X14-259 C/5) (CKA-50201-03 C/5)	15.734kHz	(d)

REGLAGES

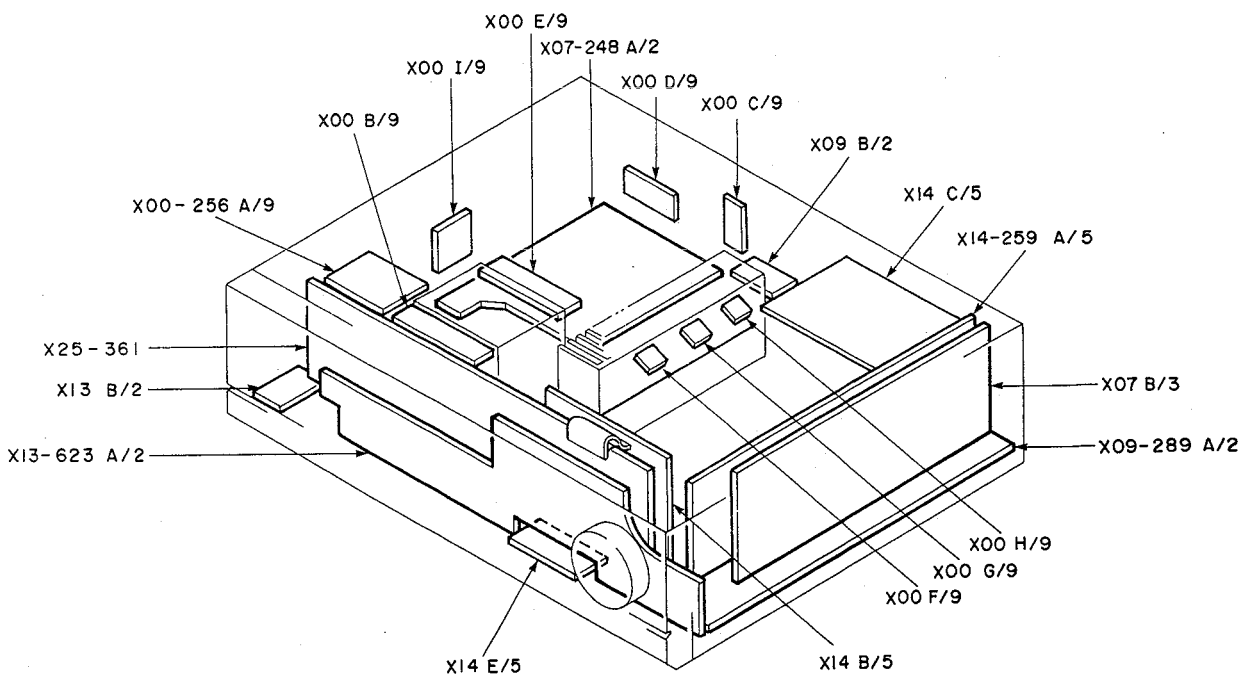
N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DE L'AMPLIFICATEUR	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
1	COURANT DE POLARISATION (AMPLIFICATEUR AVANT)	–	Raccoder un voltmètre CC entre CN409(L) et CN410(R). (X07-248 A/2) (CKA-50201-01 A/2)	VOLUME:0	VR401(L) VR402(R) (X07-248 A/2) (CKA-50201-01 A/2)	4,5mV	(a)
2	COURANT DE POLARISATION (AMPLIFICATEUR ARRIÈRE)	–	Raccoder un voltmètre CC entre TP2(L) et TP1(R). (X09-289 A/2) (CKA-50201-02 A/2)	VOLUME:0	VR702(L) VR701(R) (X09-289 A/2) (CKA-50201-02 A/2)	4,5mV	(b)
3	COURANT DE POLARISATION (AMPLIFICATEUR CENTRAL)	–	Raccoder un voltmètre CC sur TP3. (X09-289-02 A/2) (CKA-50201-02 A/2)	VOLUME:0	VR703 (X09-289 A/2) (CKA-50201-02 A/2)	4,5mV	(c)
4	VCO	Pas d'entrée	Raccoder un compteur de frêquence sur TP4. (X14-259 C/5) (CKA-50201-03 C/5)	–	VR1 (X14-259 C/5) (CKA-50201-03 C/5)	15,734kHz	(d)

ABGLEICH/PC BOARD LOCATION

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	VERSTÄRKER-EINSTELLUNG	ABGLEICH-PUNKTE	ABGLEICHEN FÜR	ABB.
1	LEERLAUFSTROM (VORDERER VERSTÄRKER)	–	Gleichstrom-Voltmeter zwischen CN409(L) und CN410(R) anschließen. (X07-248 A/2) (CKA-50201-01 A/2)	VOLUME:0	VR401(L) VR402(R) (X07-248 A/2) (CKA-50201-01 A/2)	4,5mV	(a)
2	LEERLAUFSTROM (HINTERER VERSTÄRKER)	–	Gleichstrom-Voltmeter zwischen TP2(L) und TP1(R) anschließen. (X09-289 A/2) (CKA-50201-02 A/2)	VOLUME:0	VR702(L) VR701(R) (X09-289 A/2) (CKA-50201-02 A/2)	4,5mV	(b)
3	LEERLAUFSTROM (MITTLERER VERSTÄRKER)	–	Gleichstrom-Voltmeter an TP3 anschließen. (X09-289 A/2) (CKA-50201-02 A/2)	VOLUME:0	VR703 (X09-289 A/2) (CKA-50201-02 A/2)	4,5mV	(c)
4	VCO	Kein Eingang	Frequenzzähler an TP4 anschließen. (X14-259 C/5) (CKA-50201-03 C/5)	–	VR1 (X14-259 C/5) (CKA-50201-03 C/5)	15,734kHz	(d)

PC BOARD LOCATION



KA-V500O

KA-V5000

VOLTAGE TABLES

(X14-2590-81)

IC501,502

14	13.3V
16	-13.3V

IC503

1	6V
14	-6V
15	4.7V
28	0V

IC504

7	-6.5V
14	6.5V

IC505

1	VR UP:4.8V
4	VR DOWN:4.8V
5	VR DOWN:5.9V
7	6V
8	VR UP:5.9V

IC506,507,508

1~3	0V
4	-12.8V
5~7	0V
8	12.8V

IC509

1,6,7	-6V
4,13,16	6V

IC510

1	-6V
16	6V

IC511

1~3	0V
4	-14.6V
5~7	0V
8	14.6V

IC512

IN	14.8V
GND	—
OUT	6V

Q501,502

E	0.4V
C	6V
B	1.1V

Q503

E	6.5V
C	—
B	—

Q505

E	-6.5V
C	—
B	—

Q506

E	—
C	5.9V
B	0V

Q507

E	—
C	0V
B	0.6V

IC901,903~905

1~3	0V
4	-13.8V
5~7	0V
8	6.5V

IC902

1~3	0V
4	-14V
5~7	0V
8	14V

IC906

IN	15V
GND	—
OUT	6.5V

Q903,904

E	1.1V
C	14V
B	1.7V

Q1

E	5.8V
C	11.5V
B	6.4V

Q2

E	5.3V
C	6.9V
B	5.9V

Q3

E	5.3V
C	11.5V
B	6.0V

Q4

E	6.2V
C	6.4V
B	—

Q5

E	12V
C	—
B	—

Q7

E	—
C	5.8V
B	—

Q8

E	5.3V
C	11.5V
B	5.9V

Q9

E	5.3V
C	6.9V
B	5.9V

Q10

E	5.8V
C	11.5V
B	6.4V

Q11

E	11.5V
C	—
B	—

Q12

E	4.2V
C	11.5V
B	4.9V

Q13

E	5.5V
C	11.5V
B	6.2V

Q14

G	5V
S	5V
D	—

Q15

E	0V
C	11.5V
B	0V

IC1,3

9	9V

IC2

7	9V

IC4

1	4.9V
6	9V

IC5

1~4	—
5	4.9V
6	0V
7	1.9V
8	-2.4V
9	0V
10	2.5V
11	—
12	0.5V
13	0.9V
14	0.3V
15	0V
16	2.2V
17,18	0V
19	4.6V
20~22	5.2V

IC6

1	2.1V
2,3	2.4V
4	4.2V
5	—
6	3.2V
7	0V
8	4.5V
9	5.0V

(X07-2480-81)

IC301~304

1	0V
4	-14V
7	0V
8	14V

IC305

1,7	0V

IC306

1~3	0V
4	-14V
5~7	0V
8	14V

IC307

1	5V
2	2.1V
3	0.7V
4	—
5,6	2.1V
7,8	—
9	4.7V
10	1.8V
11	2.1V
12~16	—

IC308

1~8	0V
9	-7.8V
10~15	0V
16	7.7V

IC309,310

7	-5V
16	5V

IC311

1~3	0V
4	-14V
5~7	0V
8	14V

IC312

IN	14V
GND	—
OUT	5V

IC313

IN	-14V
GND	—
OUT	-5V

Q301,302

E	5V
C	—
B	—

IC401,402

1,2	56.5V
3	50.2V
4,5	0V
6	—
7	-54.9V
8	(0.6V)
9,10	(-56.5V)
11	-0.6V
12	0.6V

IC403

1~3	0V
4	3.5
5	0V
6	0.8V
7	2.2V
8	3.4V

Q403,404

E	(-1.1V)
C	(0.6V)
B	(-0.5V)

Q405,406

E	—
C	56.5V
B	-0.6V

Q407,408

E	—
C	(-56.5V)
B	0.6V

Q409,410

E	0V
C	56.5V
B	0V

Q411

E	—
C	0V
B	56.5V

Q413

E	1.2V
C	1.3V
B	1.8V

Q414

E	0.6V
C	1.3V
B	1.2V

Q415

E	(-41.5V)
C	(-29V)
B	—

(X09-2890-81)

IC713,714,716~720

4	-10.5V
8	10.5V

IC721

1~3	0V
4	-10V
5~7	0V
8	10V

IC701

1	-10.5V
28	10.5V

IC702

4~7	-10.5V
14	10.5V

IC703,704

7	-10.5V
14	10.5V

IC705

1~3	0V
4	-10.5V
5~7	0V
8	10.5V

IC706

16	5V

IC707

1,2	(29.5V)
3	24V
4,5	0V
6	-29V
7	(-1.2V)
8	(0.6V)
9,10	(-29.5V)
11,12	—

IC708,712

1,2	(29.5V)
9,10	(-29.5V)

IC709

IN	28.7V
GND	—
OUT	12V

IC710

IN	28.9V
GND	—
OUT	15V

IC711

IN	-30.3V
GND	—
OUT	-15V

Q701,702,709,710

E	10.5V
C	—
B	—

Q703

E	-10.5V
C	—
B	—

Q713

E	(-1.2V)
C	(0.6V)
B	(-0.6V)

Q715

E	—
C	(29.5V)
B	0.6V

Q716

E	—
C	(29.5V)
B	—

Q717

E	—
C	(-29.5V)
B	-0.6V

Q718

E	—
C	(-29.5V)
B	—

Q719

E	0V
C	—
B	—

Q725

E	(29.5V)
C	—
B	—

Q726

E	(-29.5V)
C	—
B	—

Q721

E	12V
C	—
B	—

Q204

E	0.6V
C	—
B	—

Q205

E	5.5V
C	—
B	—

X25-3610-81

IC201

56	-29V
57	-29.1V
64	5V

IC202

42	5V

IC203

1	5V
2	—
3	5V

IC204

3,16	5V

FL201

1,2,64,65	AC 5V

Q201

E	—
C	5V
B	—

Q202

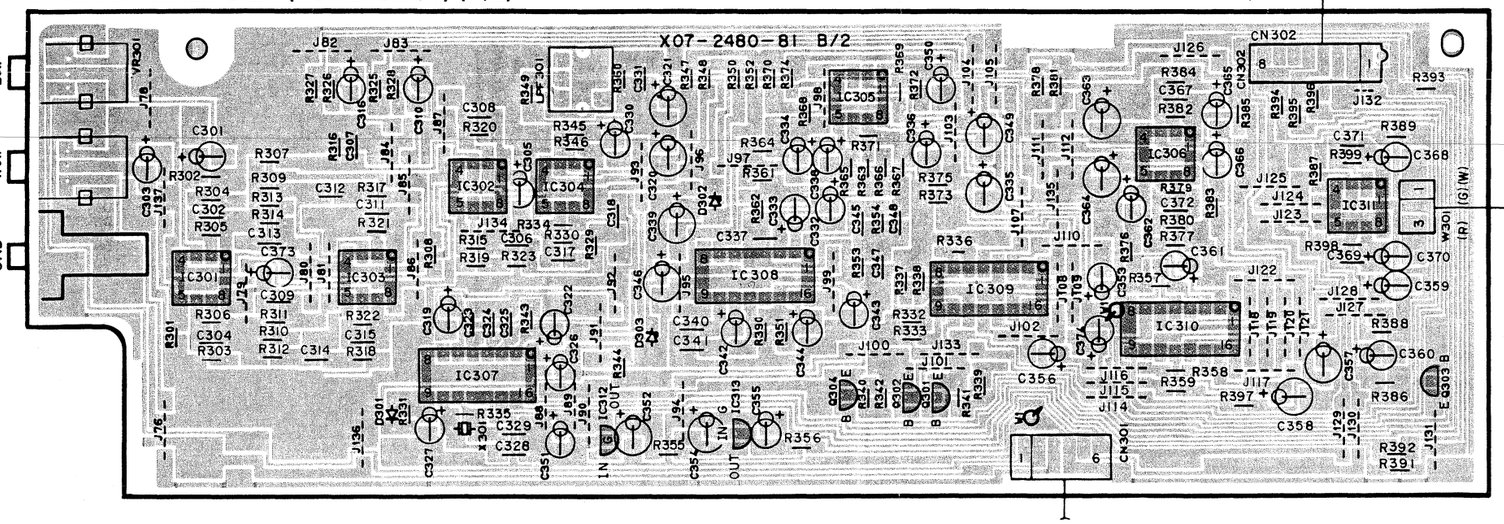
E	-29.7V
C	-29V
B	—

Q203

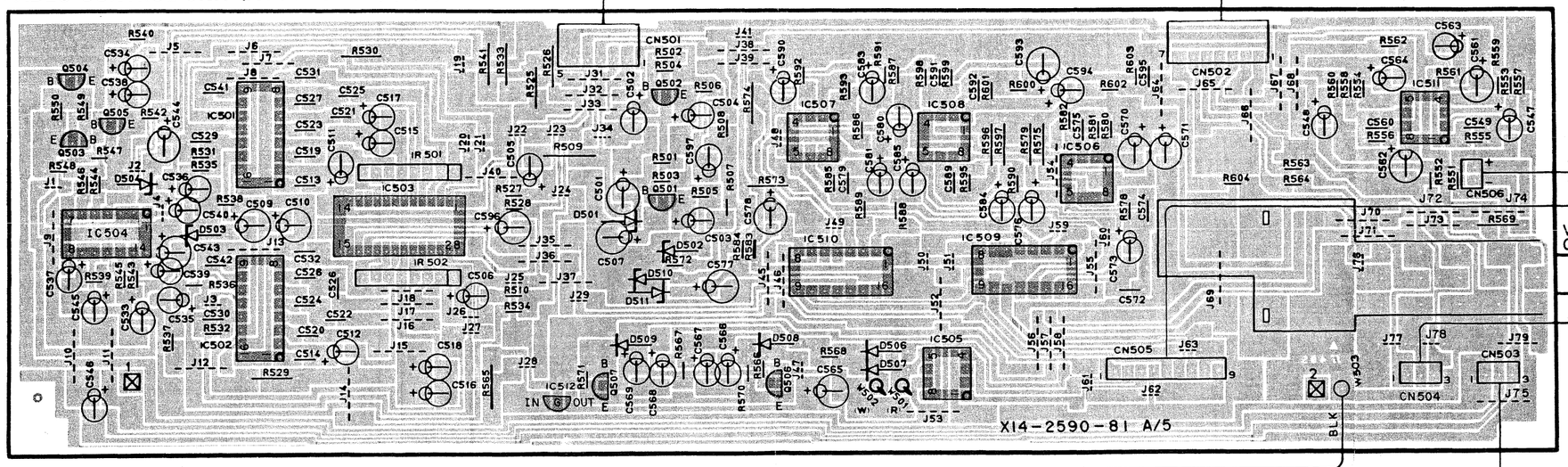
E	-29V
C	-29V
B	-28.3V

PC BOARD (Component side view)

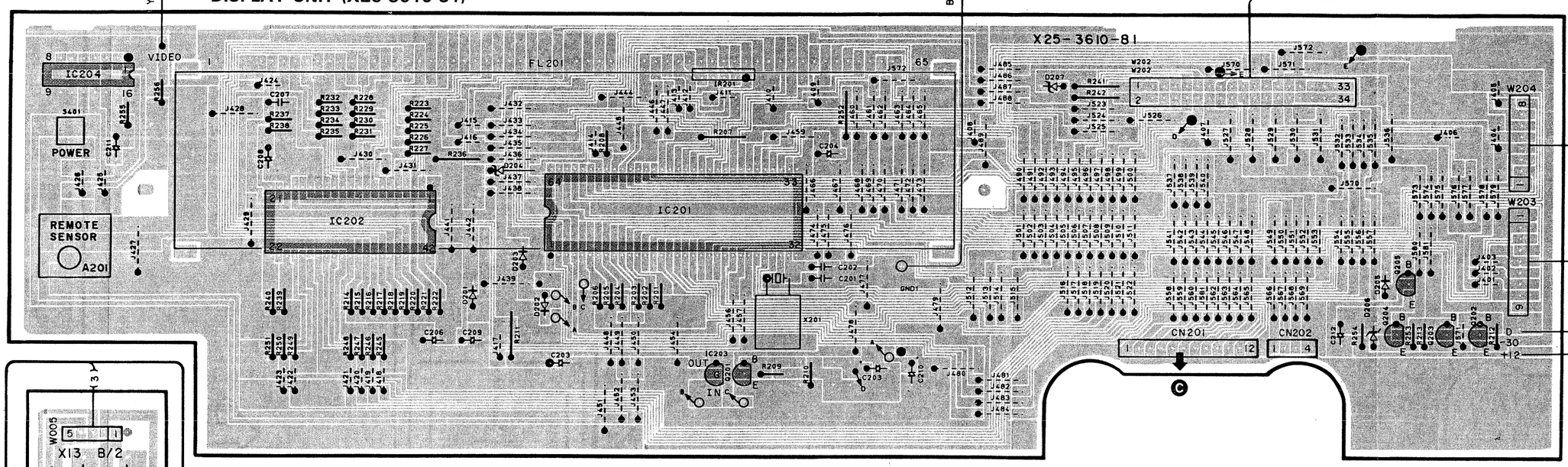
MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)



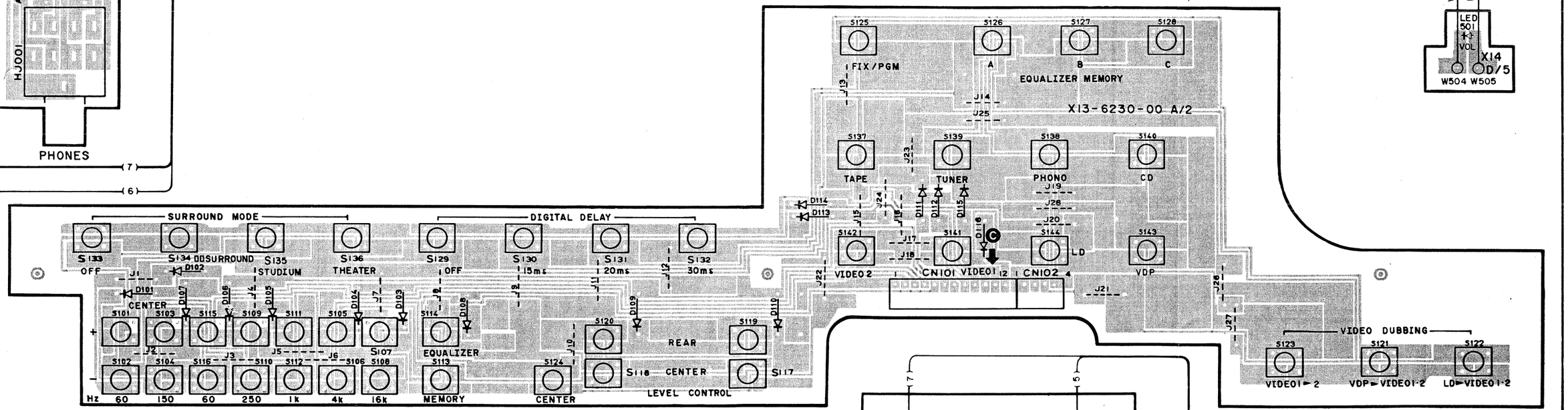
VIDEO CONTROL UNIT (X14-2590-81) (A/5)



DISPLAY UNIT (X25-3610-81)

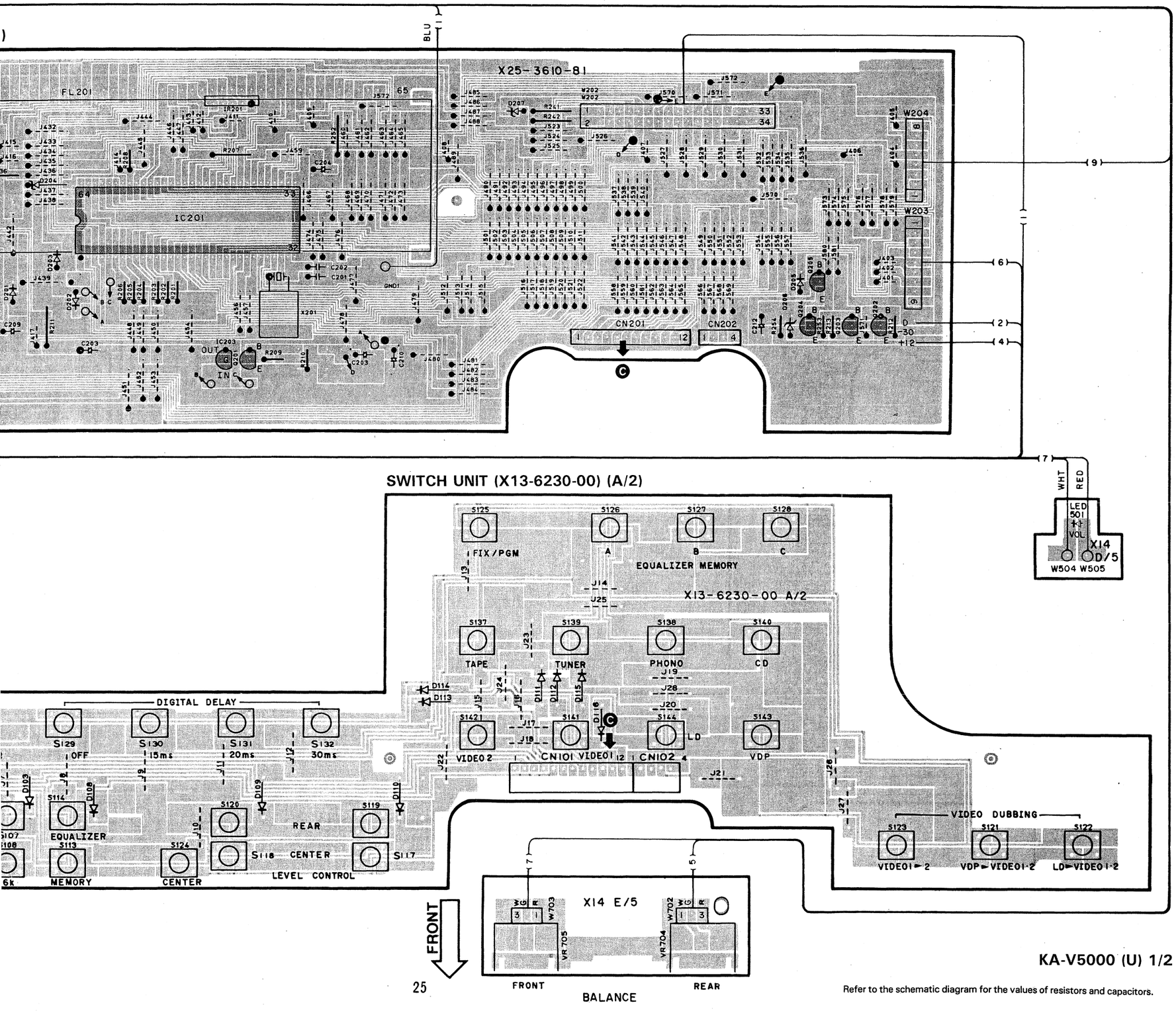


SWITCH UNIT (X13-6230-00) (A/2)



KA-V5000 (U) 1/2

Refer to the schematic diagram for the values of resistors and capacitors.



MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)

Ref. No. IC	Ref. No. Q	Address
	301	3E
	302	3E
	303	3G
	304	3E
301		2B
302		2D
303		2C
304		2D
305		2E
306		2F
307		3D
308		2E
309		2F
310		2F
311		2G
312		3D
313		3E

VIDEO CONTROL UNIT (X14-2590-81) (A/5)

Ref. No. IC	Ref. No. Q	Address
	501	5E
	502	5E
	503	5B
	504	5B
	505	5B
	506	6E
	507	6D
501		5C
502		6C
503		5D
504		5B
505		6F
506		5G
507		5E
508		5F
509		5F
510		5F
511		5H
512		6D

DISPLAY UNIT (X25-3610-81)

Ref. No. IC	Ref. No. Q	Address
	201	3M
	202	3Q
	203	3Q
	204	3Q
	205	3Q
201		2M
202		2K
203		3M
204		1J

KA-V5000 (U) 1/2

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)

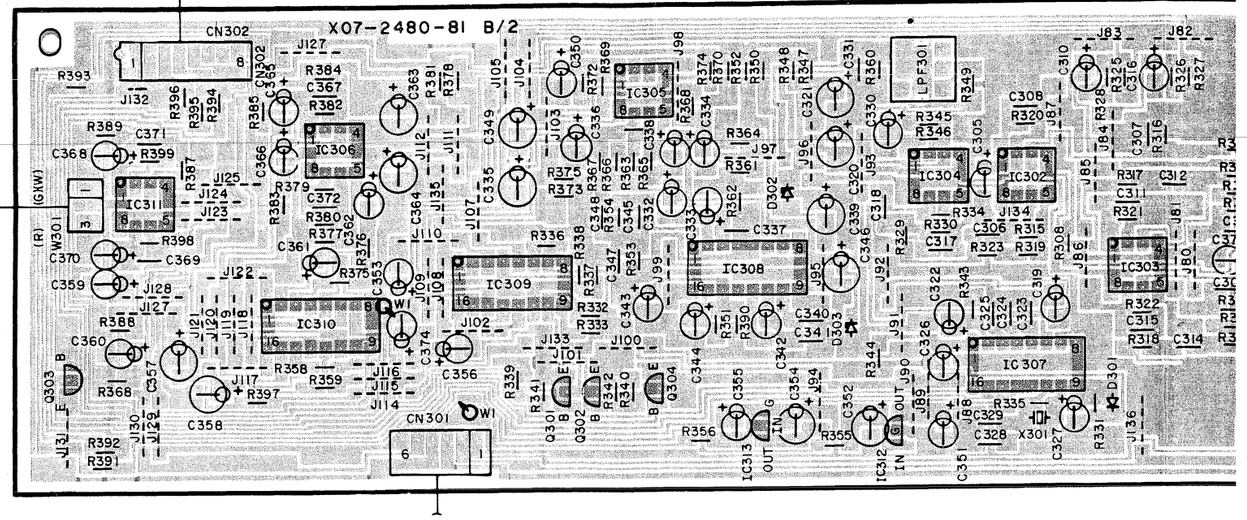
DISPLAY UNIT (X25-3610-81)

X25-3610-81

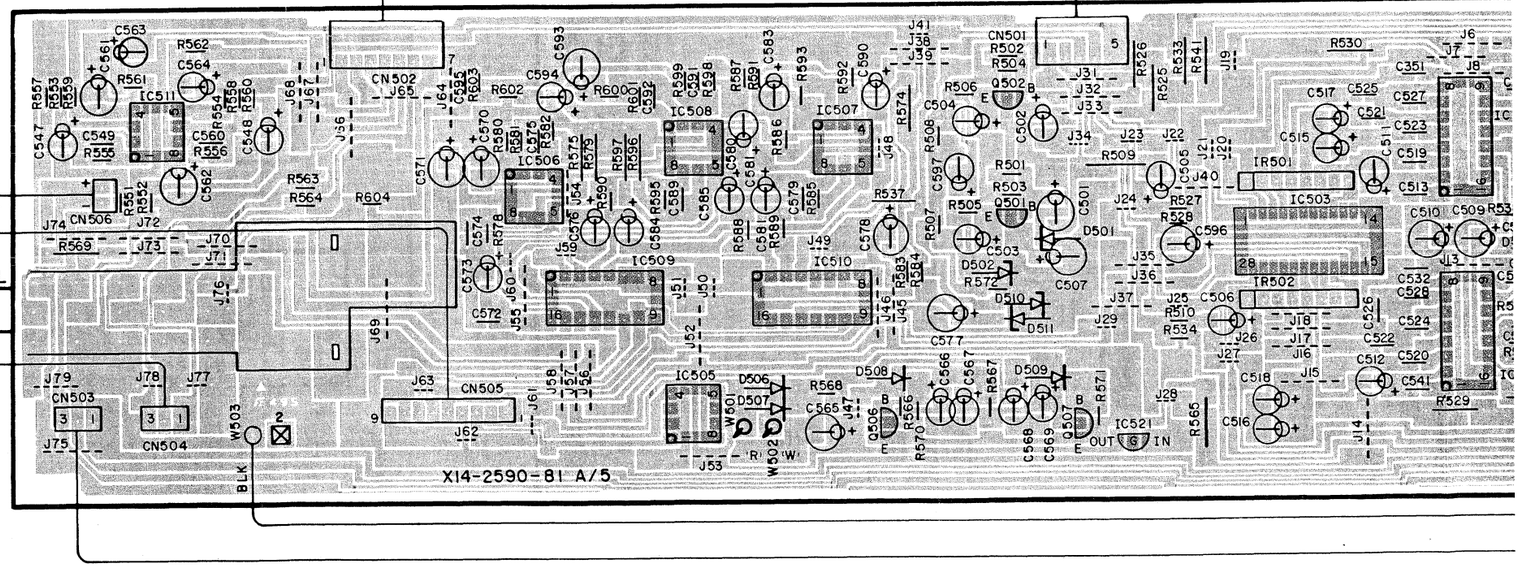
SWITCH UNIT (X13-6230-00) (A/2)

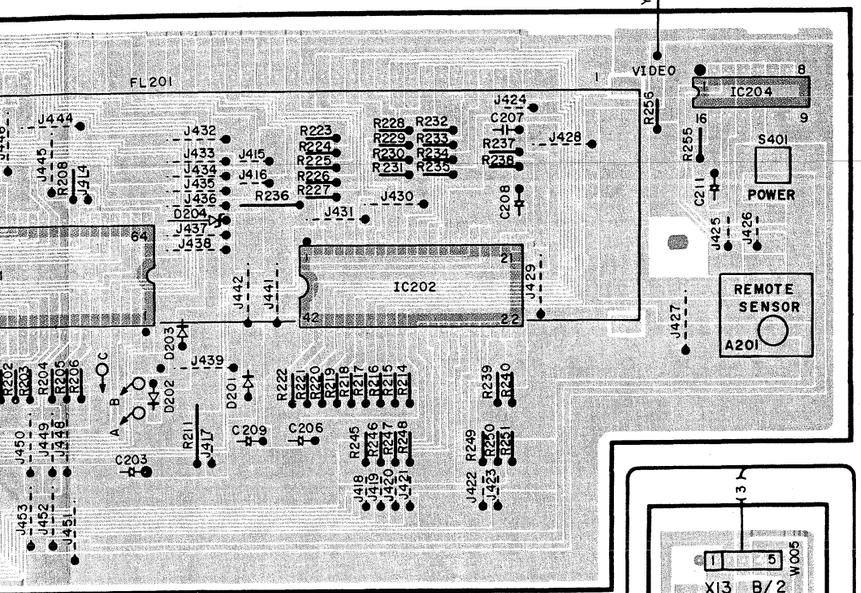
X13-6230-00 A/2

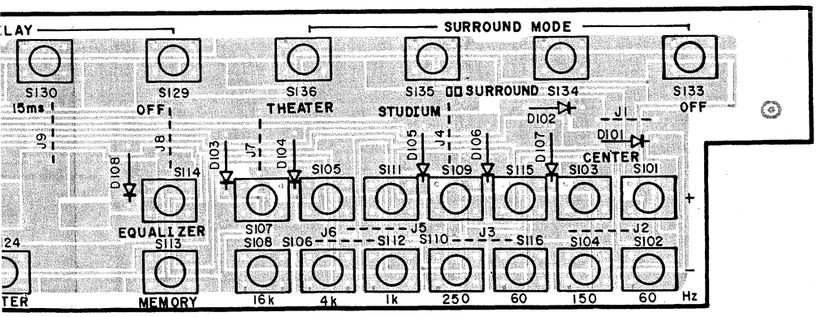
MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)



VIDEO CONTROL UNIT (X14-2590-

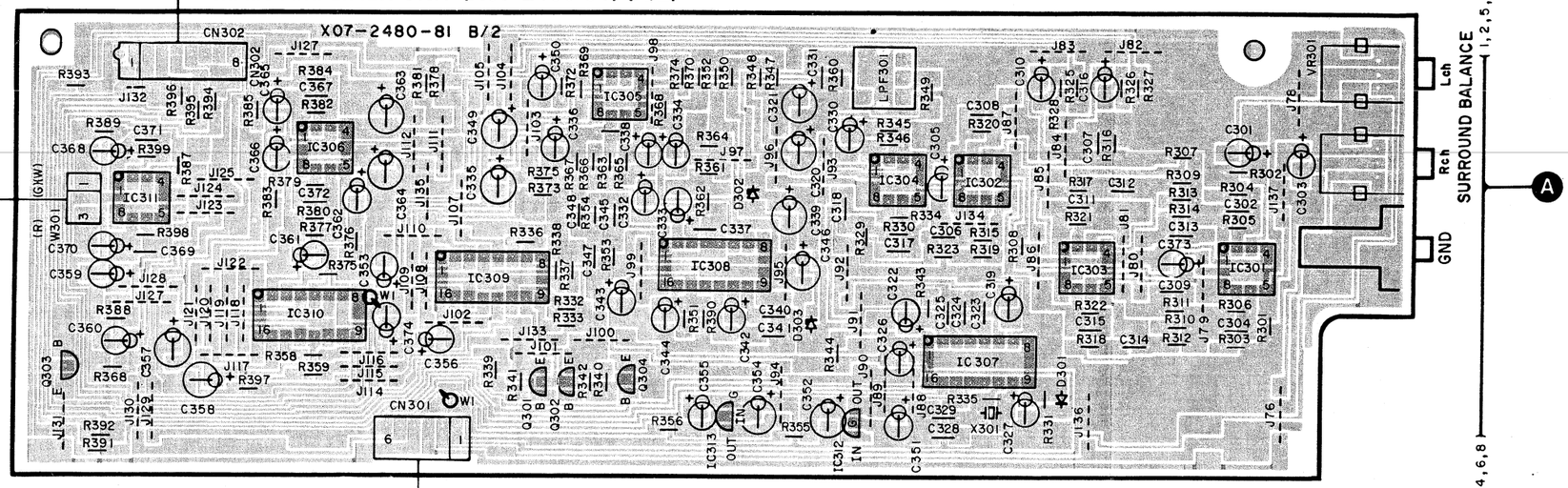




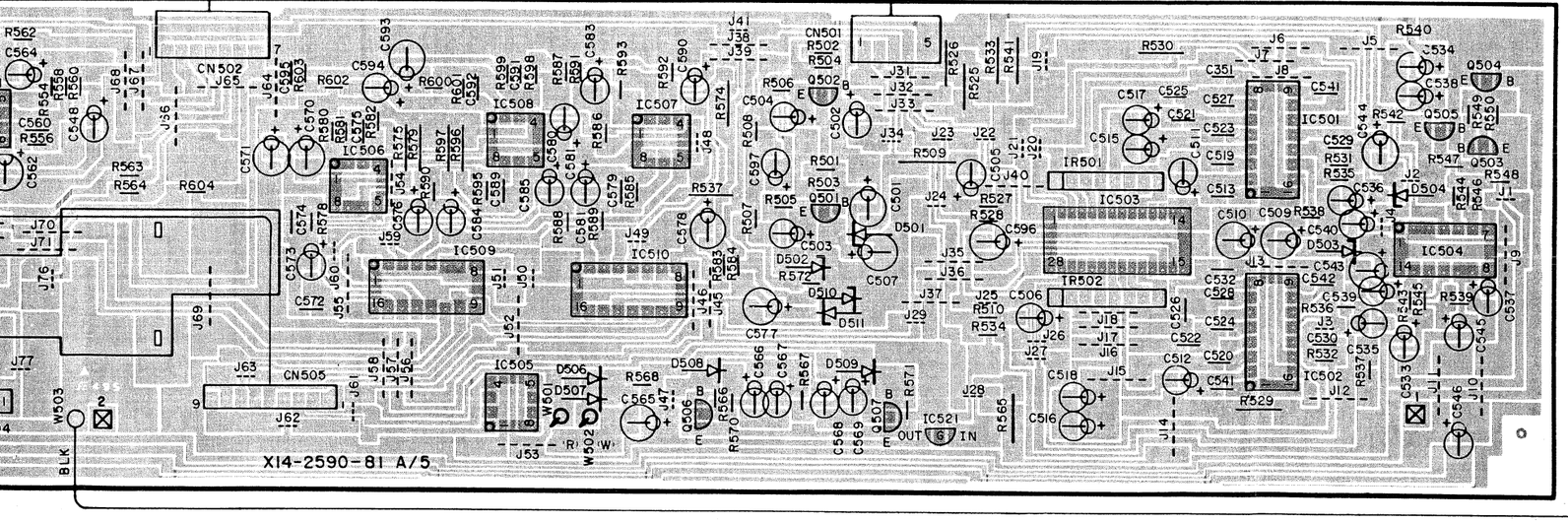


Refer to the schematic

MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)



VIDEO CONTROL UNIT (X14-2590-81) (A/5)



KA-V5000 (U) 1/2

MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)

Ref. No.		Address
IC	Q	
	301	3AH
	302	3AH
	303	3AF
	304	3AH
301		2AK
302		2AI
303		2AJ
304		2AI
305		2AH
306		2AG
307		3AI
308		2AH
309		2AG
310		2AG
311		2AF
312		3AI
313		3AH

VIDEO CONTROL UNIT (X14-2590-81) (A/5)

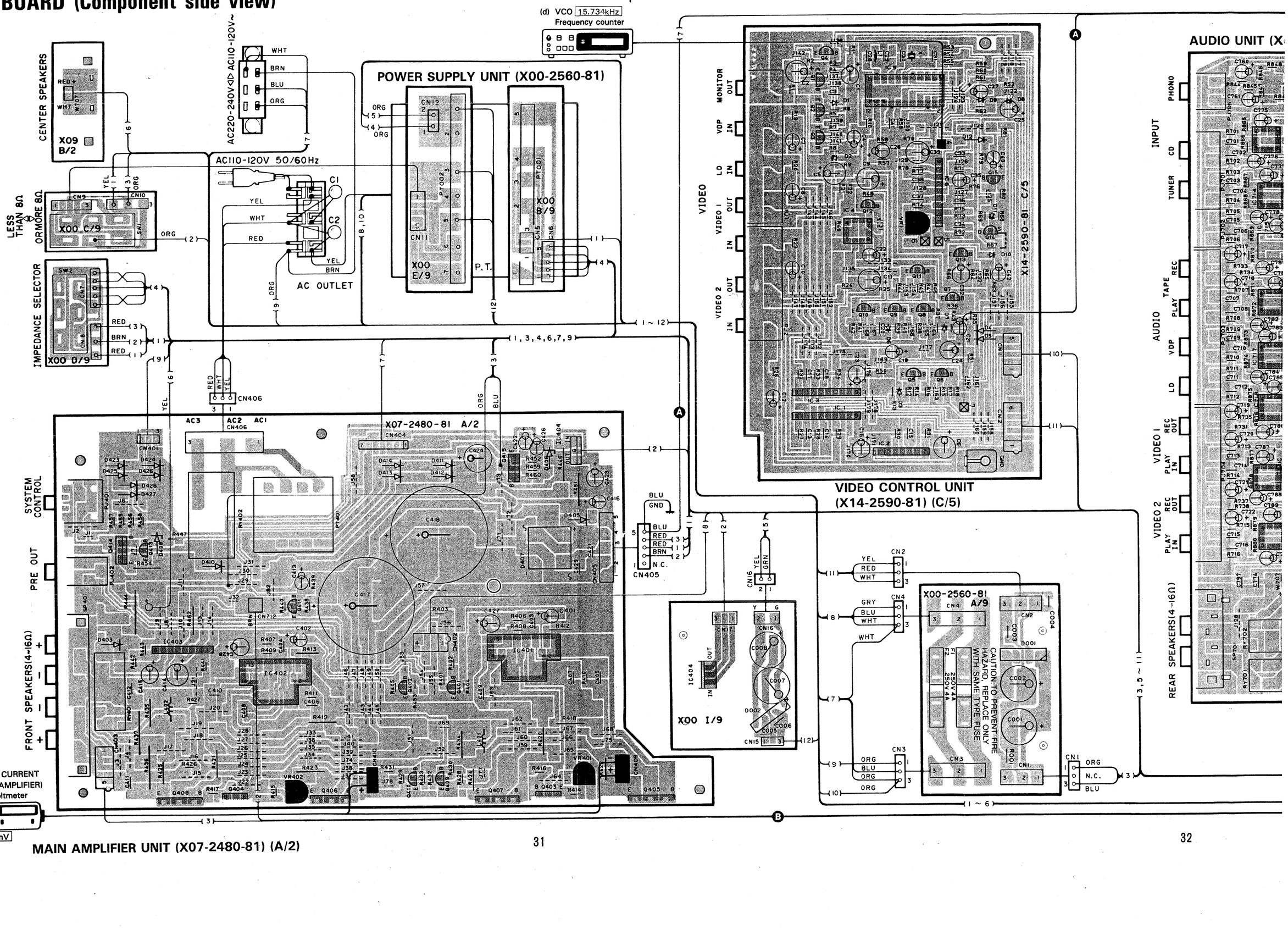
Ref. No.		Address
IC	Q	
	501	5AH
	502	4AH
	503	5AK
	504	4AK
	505	5AK
	506	6AH
	507	6AI
501		5AJ
502		6AJ
503		5AI
504		5AK
505		6AG
506		5AF
507		5AH
508		5AG
509		5AG
510		5AG
511		5AE
512		6AI

DISPLAY UNIT (X25-3610-81)

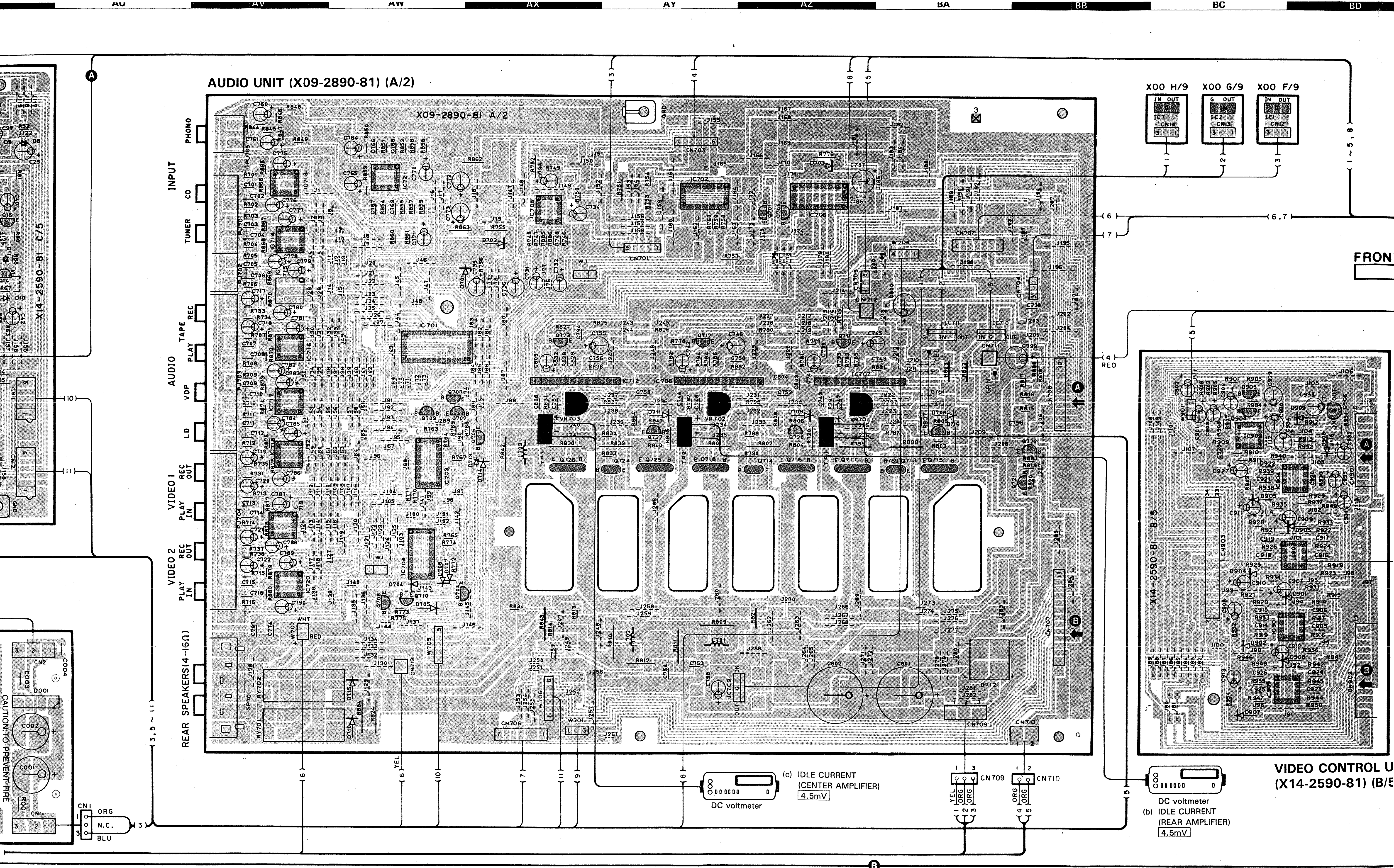
Ref. No.		Address
IC	Q	
	201	3Z
	202	3V
	203	3V
	204	3V
	205	3V
201		2Z
202		2AB
203		3Z
204		2AC

Refer to the schematic diagram for the values of resistors and capacitors.

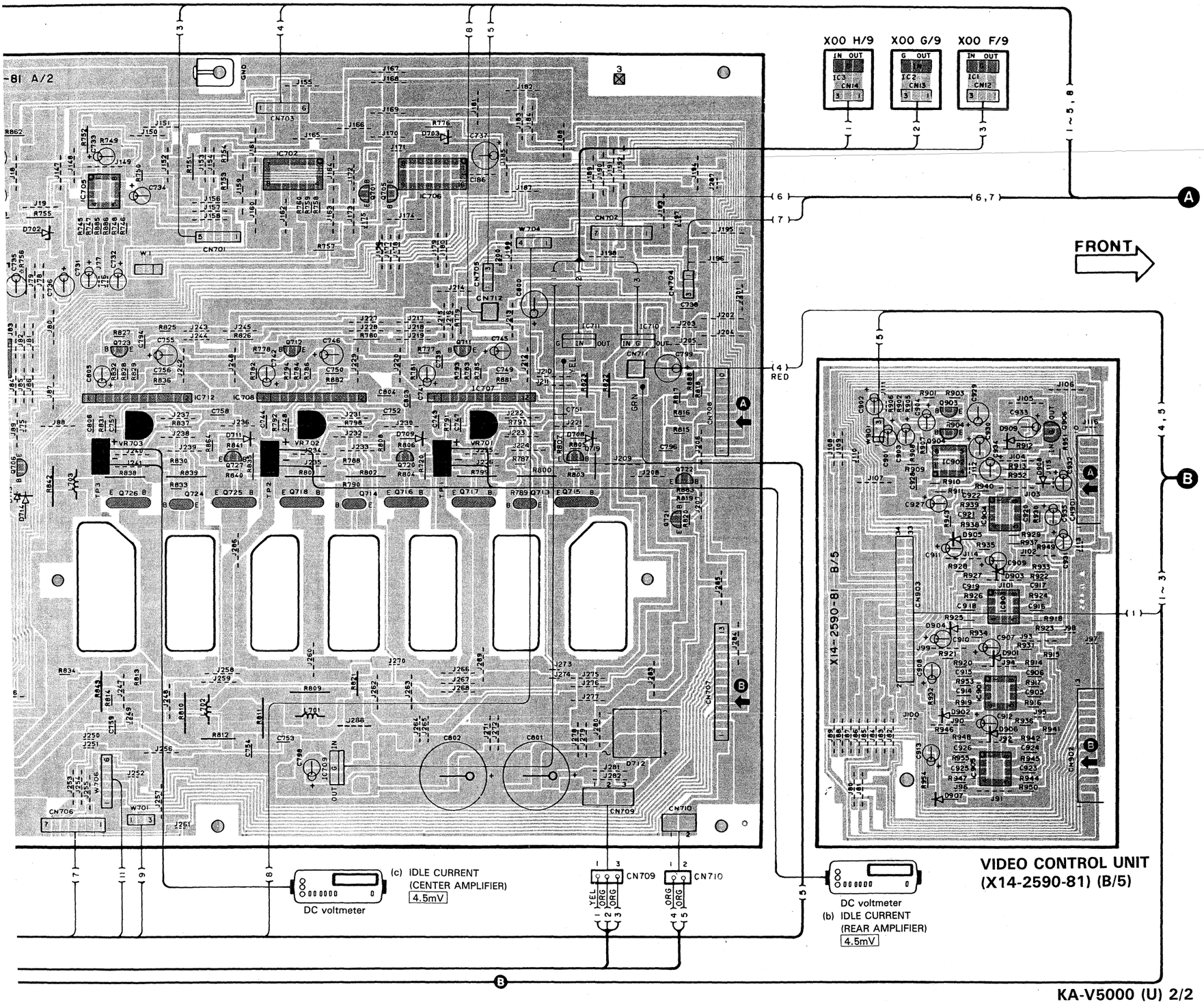
PC BOARD (Component side view)



MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)



Refer to the schematic diagram for the values of resistors and ca



VIDEO CONTROL UNIT (X14-2590-81) (B/5)

Ref. No. IC	Ref. No. Q	Address
	903	3BC
	904	3BC
	906	3BD
901		5BD
902		4BC
903		5BD
904		4BD
905		6BD

AUDIO UNIT (X09-2890-81) (A/2)

Ref. No. IC	Ref. No. Q	Address
	701	2AZ
	702	4AW
	703	–
	704	5AX
	705	2AZ
	706	4AX
	707	3AW
	708	5AW
	709	4AW
	710	5AW
	711	3AZ
	712	3AY
	713	4BA
	714	4AZ
	715	4BA
	716	4AZ
	717	4AZ
	718	4AY
	719	4BA
	720	4AZ
	721	4BB
	722	4BB
	723	3AX
	724	4AY
	725	4AY
	726	4AX
	727	4AY
701		3AW
702		2AY
703		4AW
704		5AW
705		2AX
706		2AZ
707		3AZ
708		3AY
709		6AZ
710		3BA
711		3BA
712		3AX
713		2AV
714		2AV
715		3AV
716		3AV
717		3AV
718		4AV
719		4AV
720		5AV
721		2AW

VIDEO CONTROL UNIT (X14-2590-81) (C/5)

Ref. No. IC	Ref. No. Q	Address
	1	1AS
	2	2AS
	3	2AS
	4	1AS
	5	4AT
	6	4AT
	7	3AT
	8	3AT
	9	3AS
	10	3AS
	11	3AT
	12	2AS
	13	3AT
	14	2AT
	15	2AT
1		4AS
2		4AT
3		4AS
4		2AS
5		1AS
6		2AT

MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)

Ref. No. IC	Ref. No. Q	Address
	401	6AP
	402	6AP
	403	7AQ
	404	7AO
	405	7AR
	406	7AO
	407	7AQ
	408	7AN
	409	7AP
	410	7AP
	411	5AO
	413	5AN
	414	5AN
	415	4AQ
401		6AQ
402		6AO
403		6AN
404		4AQ

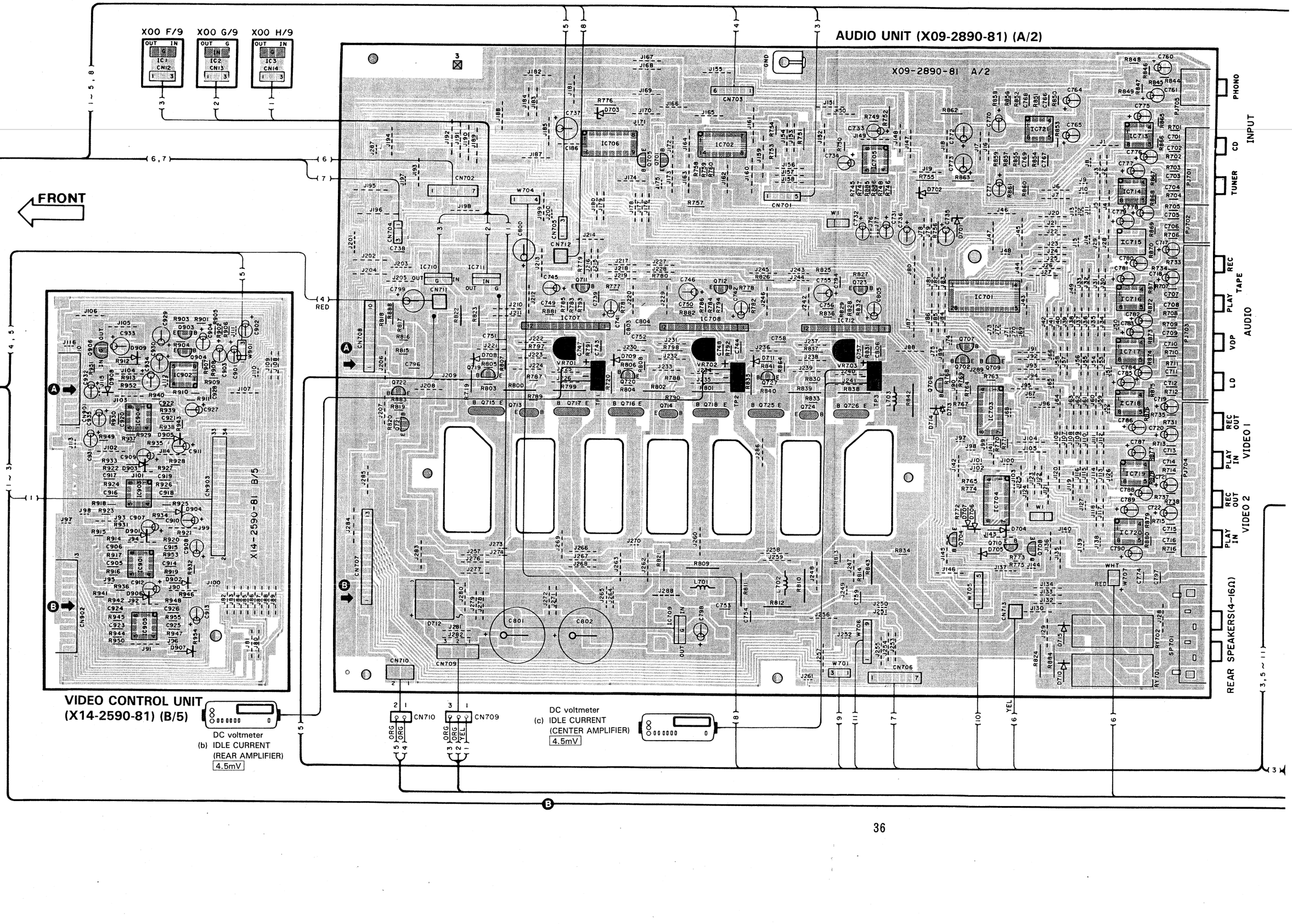
POWER SUPPLY UNIT (X00-2560-81) (I/9)

Ref. No. IC	Ref. No. Q	Address
404		6AR

KA-V5000 (U) 2/2

Refer to the schematic diagram for the values of resistors and capacitors.

PC BOARD (Foil side view)



(A/2)

INPUT
PHONO
CD
TUNER
AUDIO
REC
PLAY
TAPE
VDP
LD
VIDEO I
REC OUT
PLAY IN
VIDEO 2
REAR SPEAKERS(4~16Ω)

VIDEO CONTROL UNIT
(X14-2590-81) (C/5)

X14-2590-81 C/5

VIDEO
OUT MONITOR
IN VDP
IN LD
OUT VIDEO I
IN VIDEO 2
OUT

(d) VCO 15.734kHz
Frequency counter

POWER SUPPLY UNIT (X00-2560-81)

X00 B/9
P.T.
X00 E/9
AC OUTLET
AC220-240V◁▷AC110-120V~
AC110-120V 50/60Hz
WHT
BRN
BLU
ORG
YEL
RED
BRN
X09 B/2
CENTER SPEAKERS
X00 C/9
ORMORE 8Ω
X00 D/9
IMPEDANCE SELECTOR
SW2

X00-2560-81 A/9
F1 250V 4A
F2 250V 4A

X00 1/9

CN2 YEL RED WHT
CN4 GRY BLU WHT
CN3 ORG BLU ORG ORG
CN1 ORG N.C. BLU
CN16 GRN YEL
CN15
CN405 BLU GND / BLU RED / RED / BRN N.C

X07-2480-81 A/2

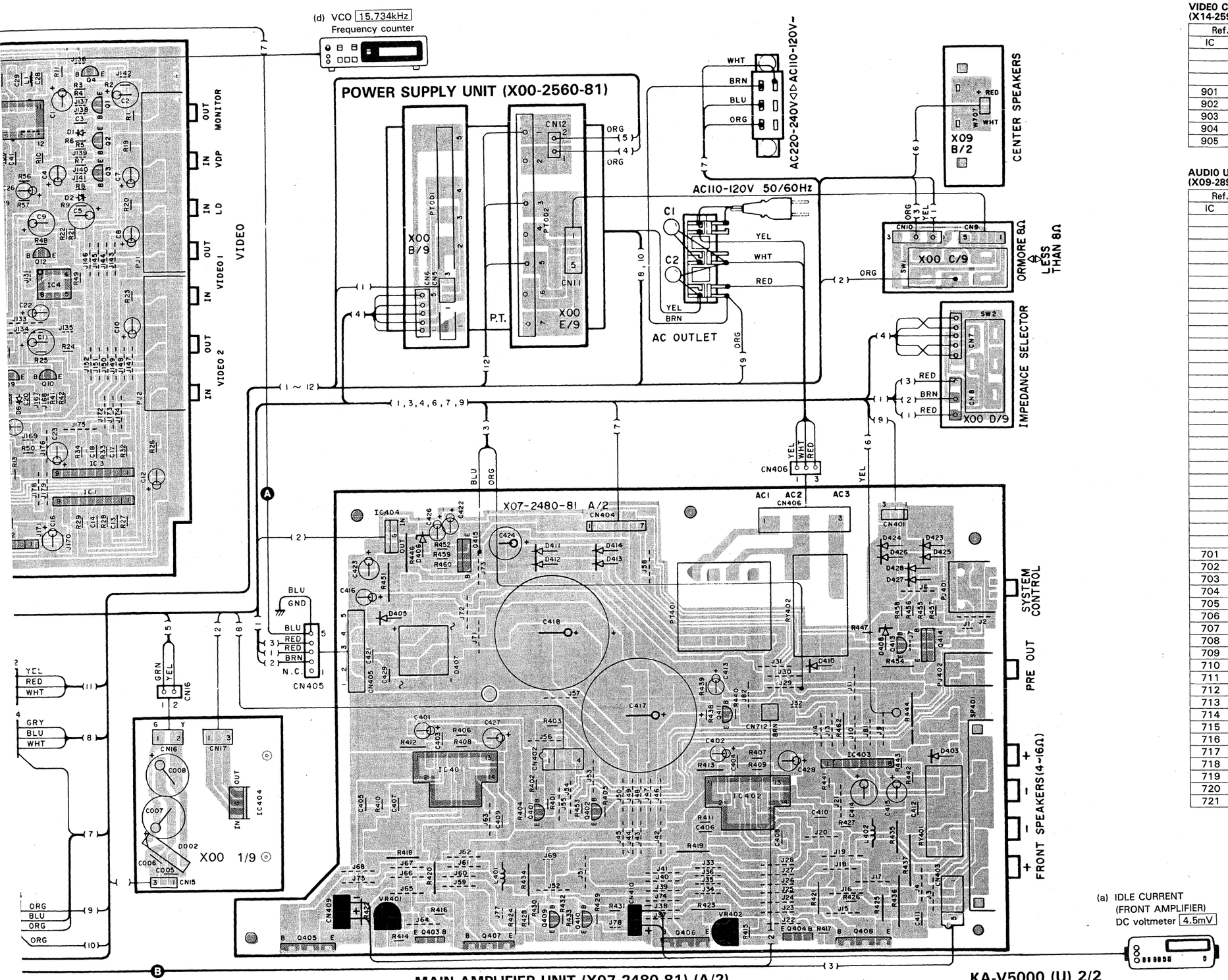
AC1 AC2 AC3
CN406 YEL WHT RED
CN404
CN401
CN409
CN410
CN712
CN402
CN403

SYSTEM CONTROL
PRE OUT
FRONT SPEAKERS(4~16Ω)

MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)

KA-V5000

Refer to the schematic diagram for th



VIDEO CONTROL UNIT (X14-2590-81) (B/5)

Ref. No. IC	Ref. No. Q	Address
	903	3BG
	904	4BG
	906	4BG
901		5BG
902		4BG
903		5BG
904		4BG
905		6BG

AUDIO UNIT (X09-2890-81) (A/2)

Ref. No. IC	Ref. No. Q	Address
	701	2BK
	702	4BM
	703	–
	704	5BM
	705	2BK
	706	4BM
	707	3BM
	708	5BM
	709	4BM
	710	5BM
	711	3BJ
	712	3BK
	713	4BJ
	714	4BK
	715	4BJ
	716	4BK
	717	4BJ
	718	4BK
	719	4BJ
	720	4BK
	721	4BI
	722	4BI
	723	3BM
	724	4BL
	725	4BL
	726	4BL
	727	4BL
701		3BM
702		2BK
703		4BN
704		5BN
705		2BM
706		2BK
707		3BJ
708		3BK
709		6BK
710		3BI
711		3BJ
712		3BL
713		2BO
714		2BO
715		3BO
716		3BO
717		3BO
718		4BO
719		4BO
720		5BO
721		2BN

VIDEO CONTROL UNIT (X14-2590-81) (C/5)

Ref. No. IC	Ref. No. Q	Address
	1	1BR
	2	2BR
	3	2BR
	4	1BR
	5	4BQ
	6	4BQ
	7	3BQ
	8	3BQ
	9	3BQ
	10	3BR
	11	3BQ
	12	2BQ
	13	3BQ
	14	2BQ
	15	2BQ
1		4BR
2		4BQ
3		4BR
4		2BR
5		1BQ
6		2BQ

MAIN AMPLIFIER UNIT (X07-2480-81) (A/2)

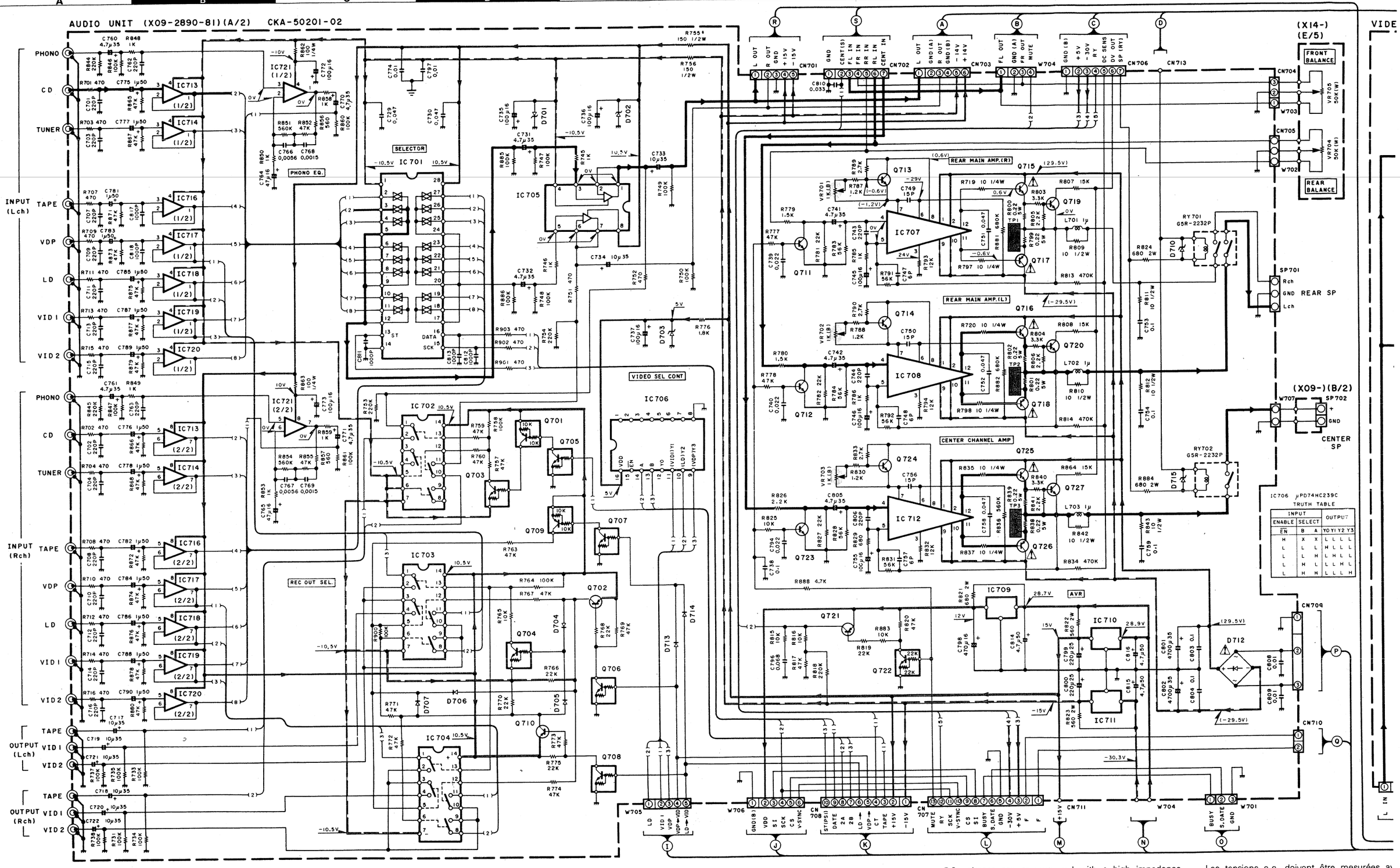
Ref. No. IC	Ref. No. Q	Address
	401	6BU
	402	6BU
	403	7BT
	404	7BV
	405	7BS
	406	7BV
	407	7BT
	408	7BW
	409	7BU
	410	7BU
	411	5BV
	413	5BW
	414	5BW
	415	4BT
401		6BT
402		6BV
403		6BW
404		4BT

POWER SUPPLY UNIT (X00-2560-81) (I/9)

Ref. No. IC	Ref. No. Q	Address
404		6BS

KA-V5000 (U) 2/2

Refer to the schematic diagram for the values of resistors and capacitors.



DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées av mètre à haute impédance sans signal d' valeurs peuvent différer légèrement du fai tions inhérentes aux appareils et aux inst mesure individuels.

VIDEO CONTROL UNIT (X14-2590-81)(A/5) CKA-50201-03

(X14-)(E/5)

(X09-)(B/2)

(X14-)(D/5)

IC706 μPD74HC239C TRUTH TABLE

INPUT			OUTPUT			
EN	B	A	Y0	Y1	Y2	Y3
H	X	X	L	L	L	L
L	L	L	H	L	L	L
L	L	H	L	H	L	L
L	H	L	L	L	H	L
L	H	H	L	L	L	H

(X09-2890-81)

IC701	: TC9163N
IC702 ~ 704	: LC4066BH
IC705, 713, 714, 716 ~ 721	: NJM4558D-A
IC706	: μPD74HC239C
IC707, 708, 712	: μPC1225H
IC709	: μPC7812HF
IC710	: μPC7815HF
IC711	: μPC7915HF
Q701, 709	: DTA114ES
Q702, 710, 721	: 2SA733(A)(Q, P) or 2SA933S(Q, R)
Q703 ~ 708, 722	: DTC124EN
Q711, 712, 723	: 2SC2878(B)
Q713, 714, 724	: 2SD414
Q715, 716, 725	: 2SD613 *1
Q717, 718, 726	: 2SB633 *1
Q719, 720, 727	: 2SC1845(F, E)
D701, 702	: HZS7.5S(B) or RD7.5JS(B)
D703	: HZS5.1N(B2) or RD5.1ES(B2)
D704 ~ 707, 713, 714	: HSS104 or ISS133
D710, 715	: RD24F(B)
D712	: S4VB20

(X14-2590-81)

IC501, 502	: M5227P
IC503	: LC7522
IC504	: LC4066BH
IC505	: LB1630
IC506 ~ 508, 511	: NJM4558D-A
IC509	: TC9170AP
IC510	: TC9154AP
IC512	: μPC78L06J
Q501, 502, 506, 507	: 2SC945(A)(Q, P) or 2SC1740S(Q, R)
Q503	: 2SA733(A)(Q, P) or 2SA933S(Q, R)
Q504, 505	: DTC124EN
D501, 502, 510, 511	: RD6.2ES(B2) or HZS6.2N(B2)
D503, 504	: RD6.8ES(B2) or HZS6.8N(B2)
D506 ~ 509	: HSS104 or ISS133

SIGNAL LINE
GND LINE
+B LINE
-B LINE

KA-V5000(K)(1/3)

tensions c.c. doivent être mesurées avec un volt-
e à haute impédance sans signal d'entrée. Les
rs peuvent différer légèrement du fait des varia-
inhérentes aux appareils et aux instruments de
re individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

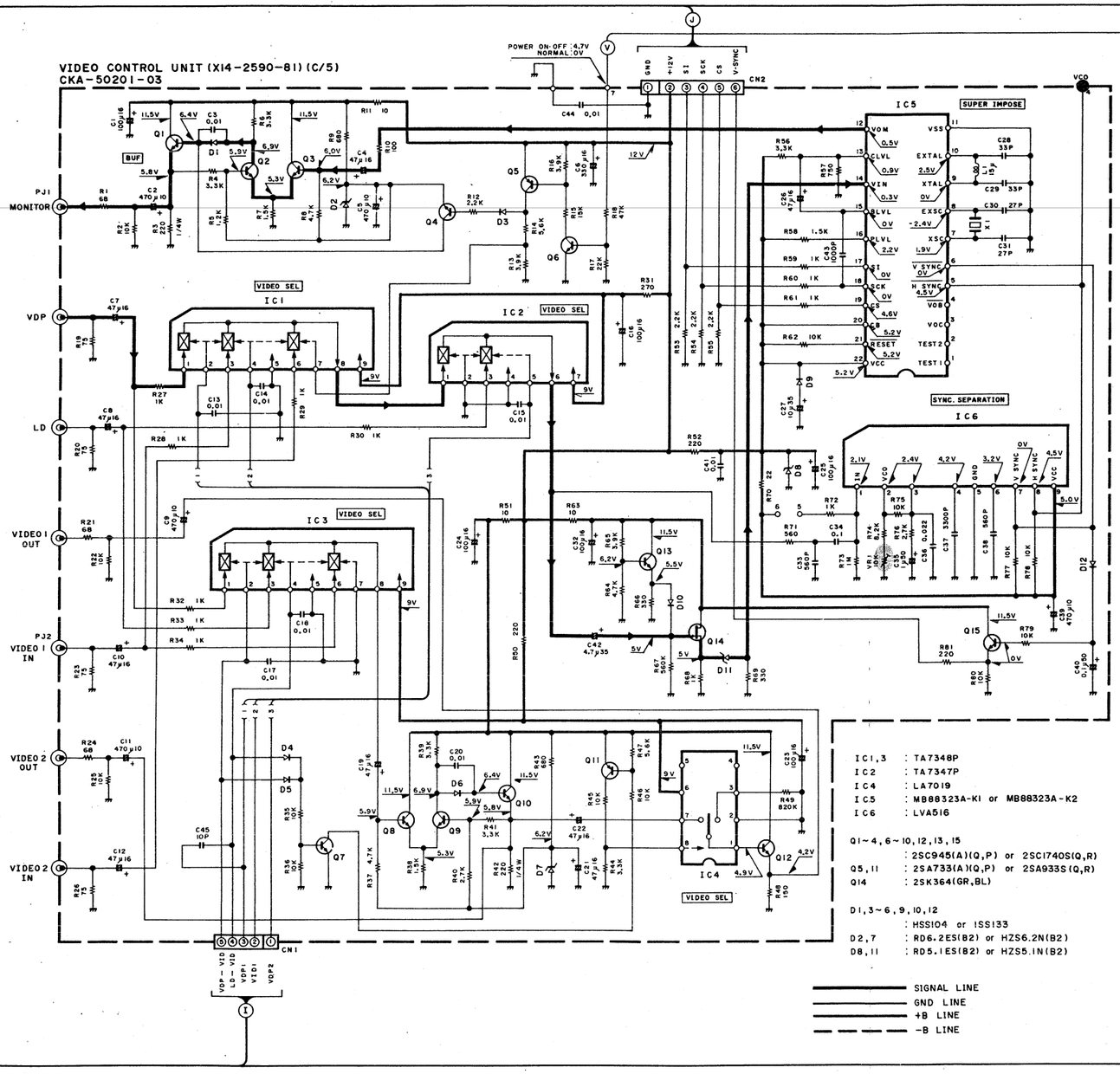
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y08-3660-81

KA-V5000

KENWOOD

VIDEO CONTROL UNIT (X14-2590-81) (C/5) CKA-50201-03



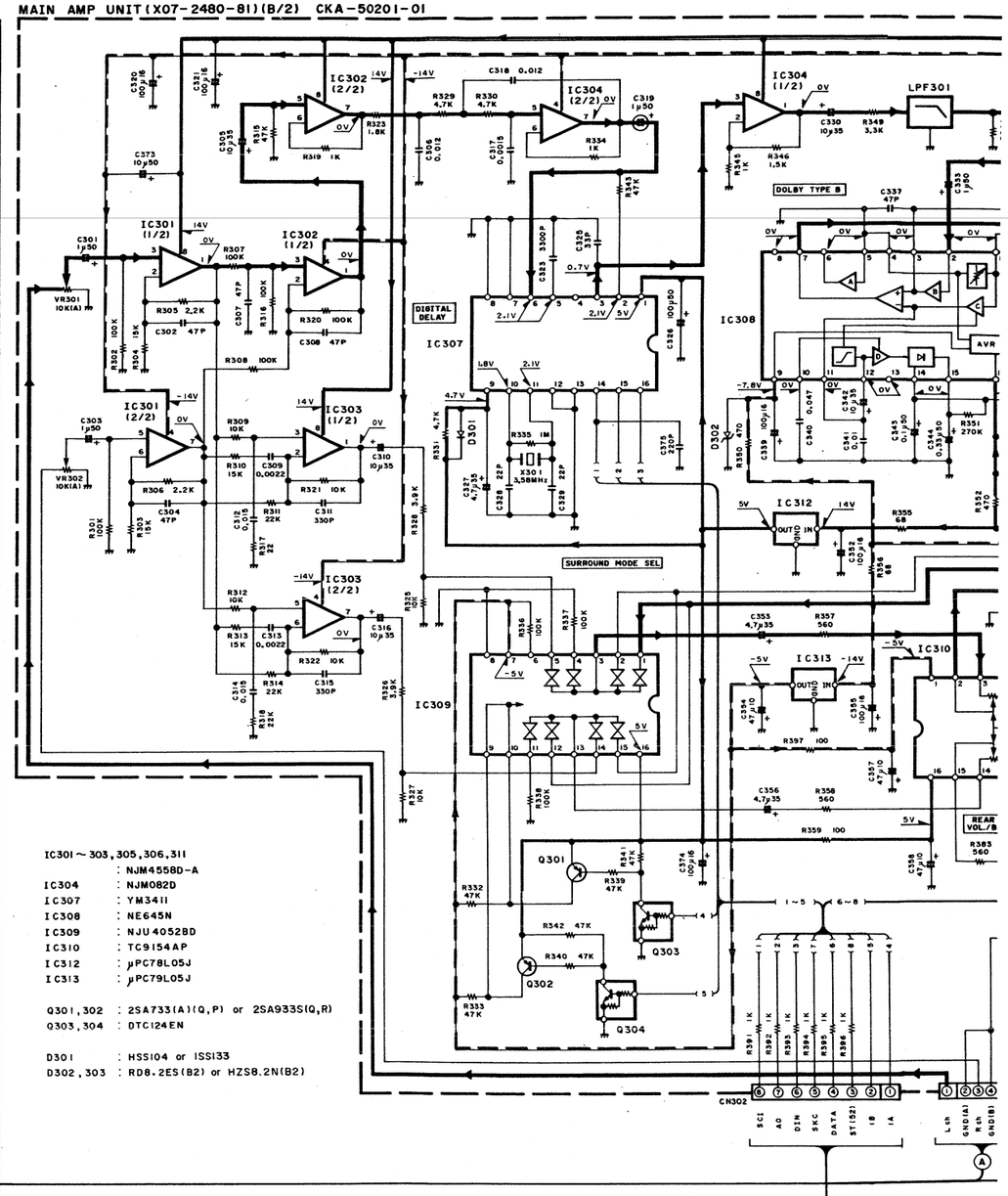
IC1,3 : TA7348P
IC2 : TA7347P
IC4 : LA7019
IC5 : MB88323A-K1 or MB88323A-K2
IC6 : LVA516

Q1~4,6~10,12,13,15
: 2SC945(A)(Q,P) or 2SC1740S(Q,R)
Q5,11 : 2SA733(A)(Q,P) or 2SA933S(Q,R)
Q14 : 2SK364(GR,BL)

D1,3~6,9,10,12
: HSS104 or 1SS133
D2,7 : RD6.2ES(B2) or HZS6.2N(B2)
D8,11 : RD5.1ES(B2) or HZS5.1N(B2)

SIGNAL LINE
GND LINE
+B LINE
-B LINE

MAIN AMP UNIT (X07-2480-81) (B/2) CKA-50201-01

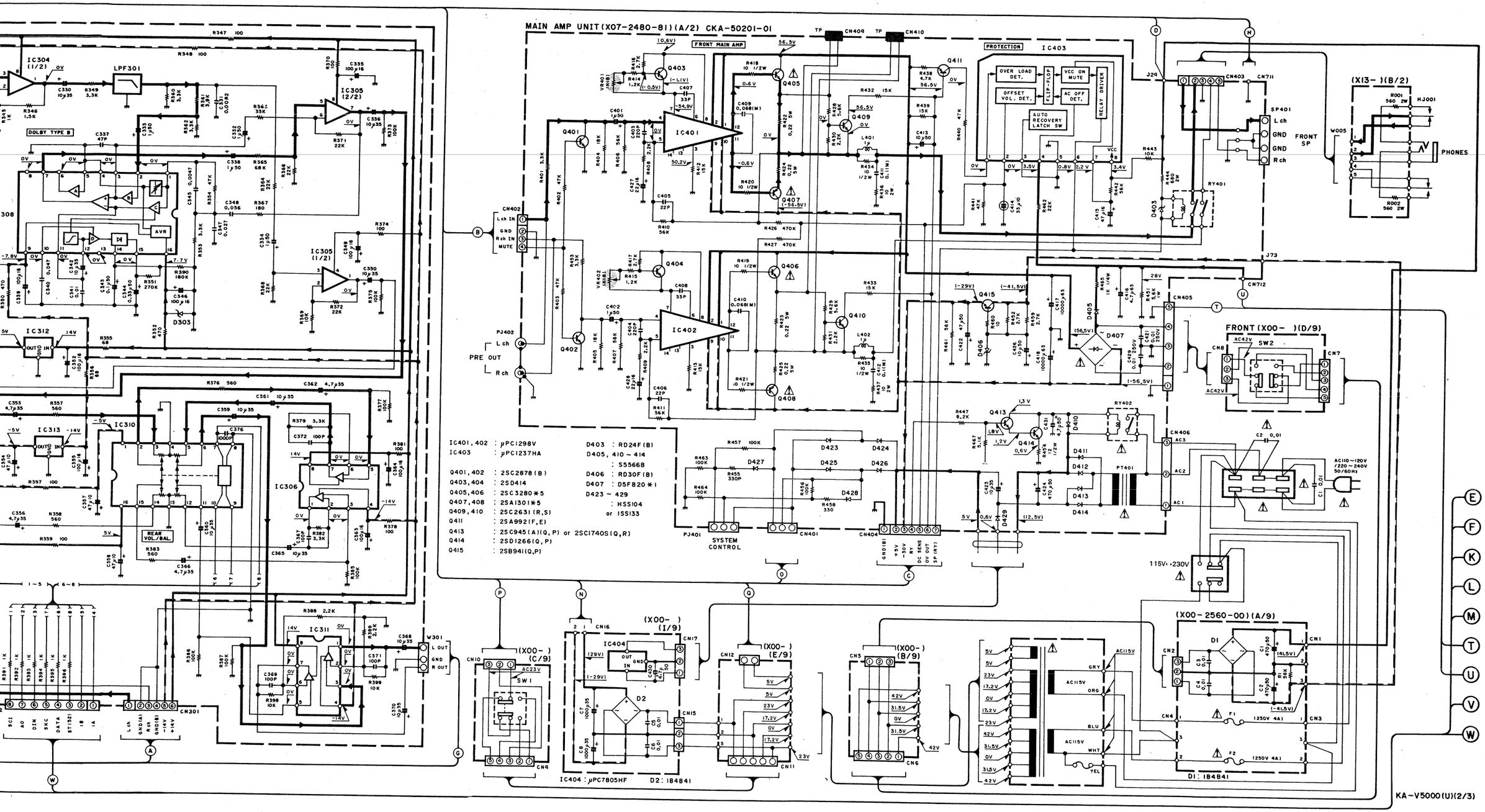


IC301~303,305,306,311
: NJM4558D-A
IC304 : NJM082D
IC307 : YM3411
IC308 : NE645N
IC309 : NJU4052BD
IC310 : TC9154AP
IC312 : μPC78L05J
IC313 : μPC79L05J

Q301,302 : 2SA733(A)(Q,P) or 2SA933S(Q,R)
Q303,304 : DTC124EN

D301 : HSS104 or 1SS133
D302,303 : RD8.2ES(B2) or HZS8.2N(B2)

DC voltages are as measured with a h
voltmeter with no signal input. Valu
slightly due to variations between ins
ments or/and units.



Voltages are as measured with a high impedance meter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

KA-V5000(U)(2/3)

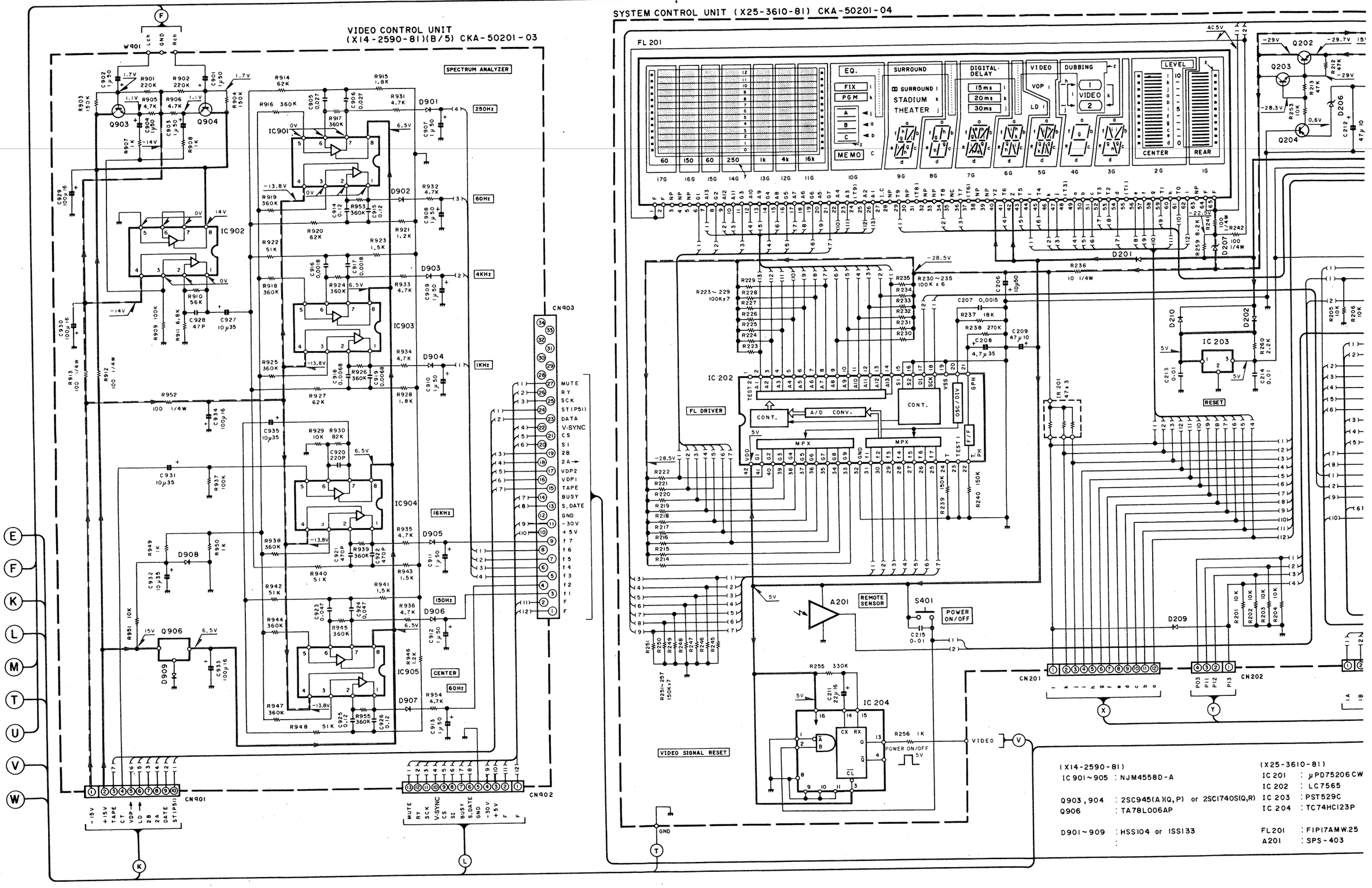
Y08-3660-81

KA-V5000

KENWOOD

VIDEO CONTROL UNIT (X14-2590-81)(B/5) CKA-50201-03

SYSTEM CONTROL UNIT (X25-3610-81) CKA-50201-04



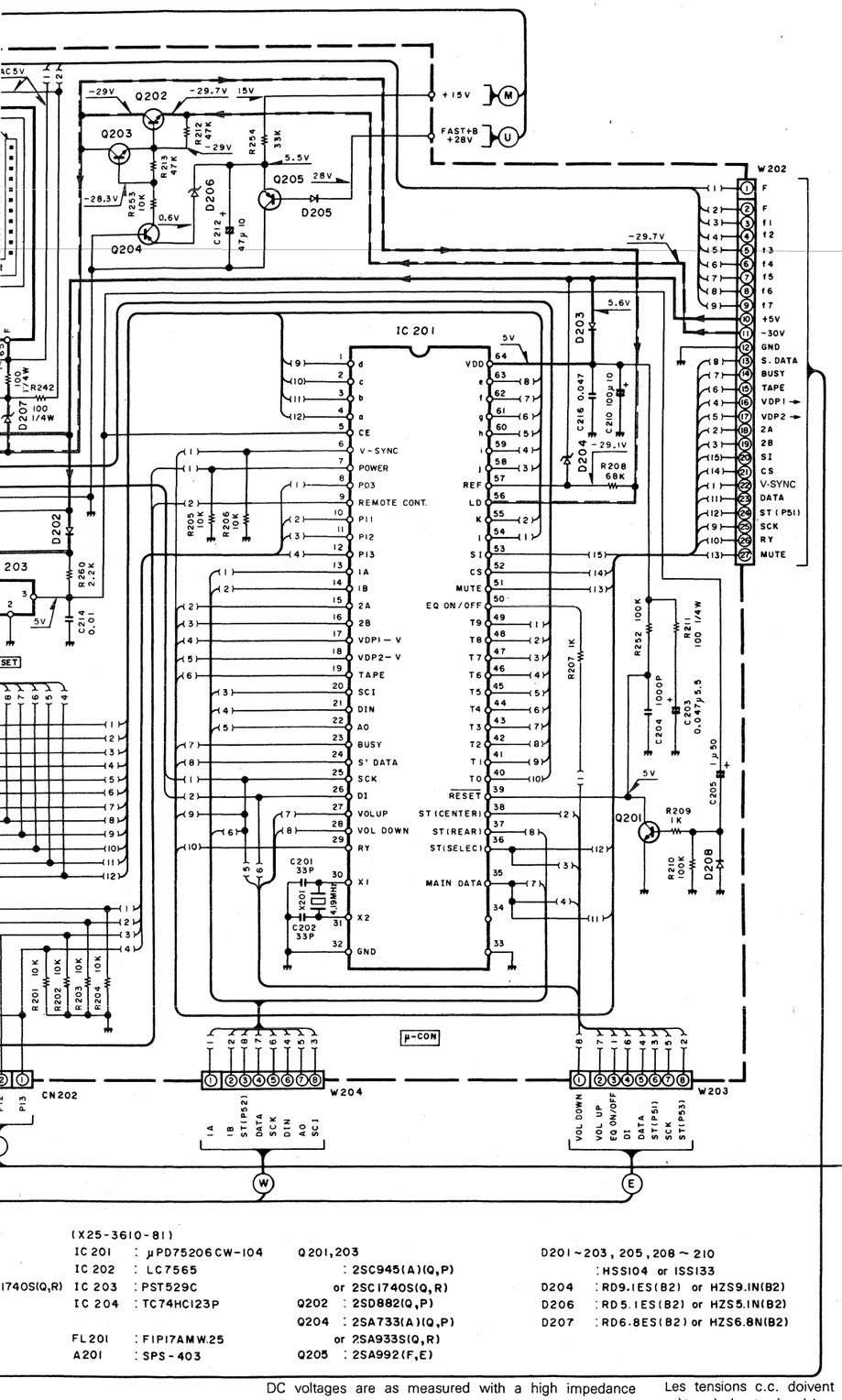
(X14-2590-81)
IC 901~905 : NJM4558D-A

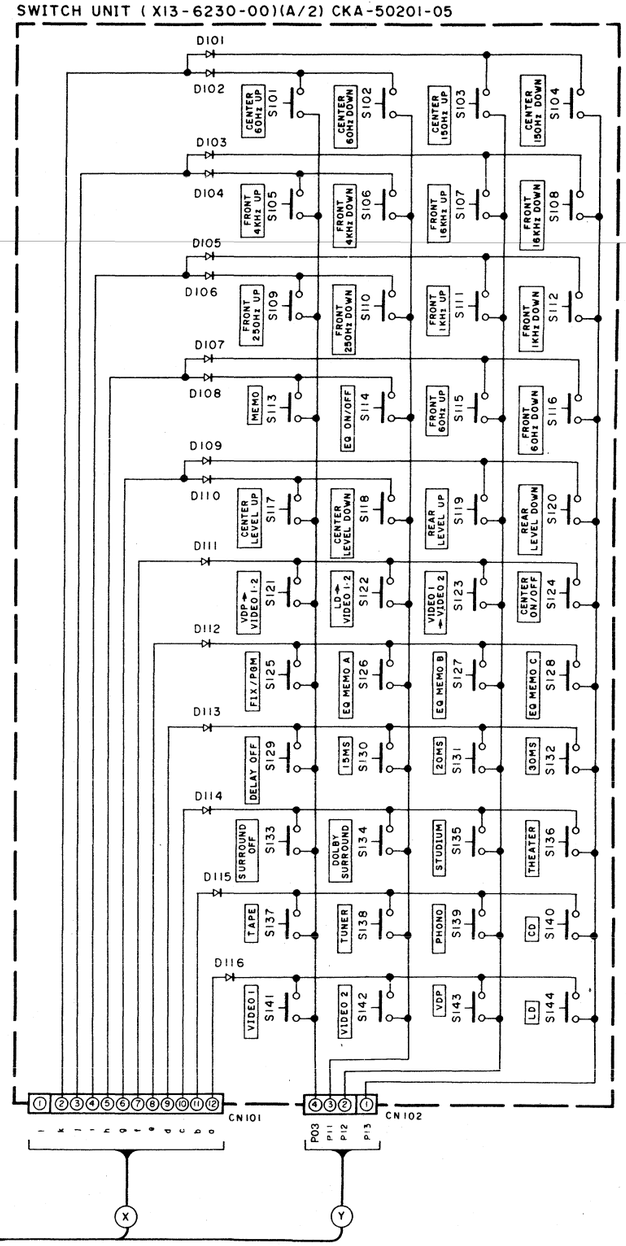
Q903, 904 : 2SC945(A)(Q, P) or 2SC1740S(Q, R)
Q906 : TA78L006AP

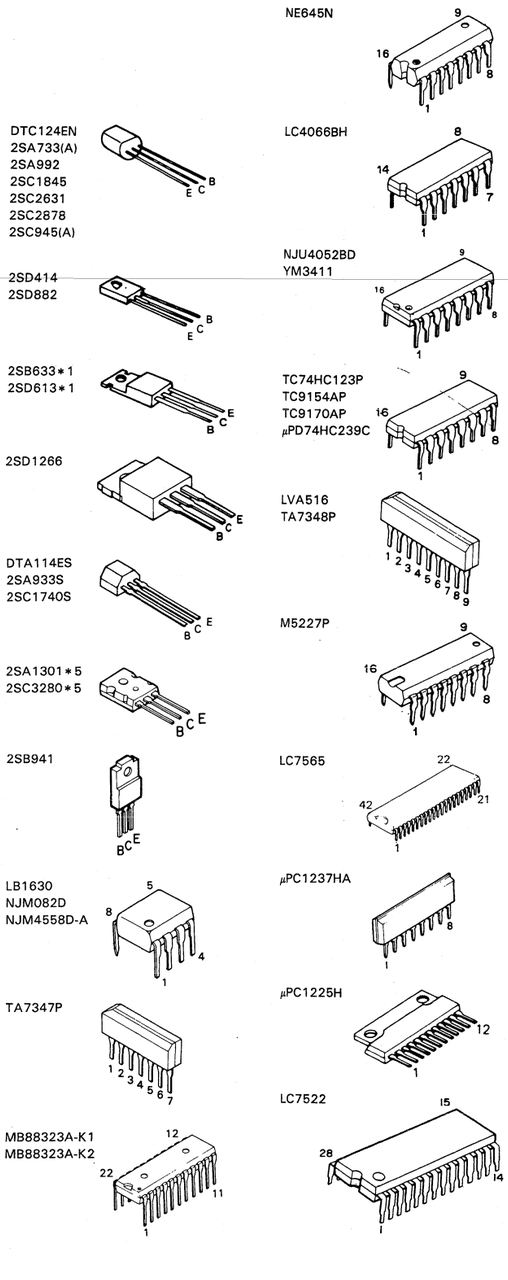
D901~909 : HSS104 or 1SS133

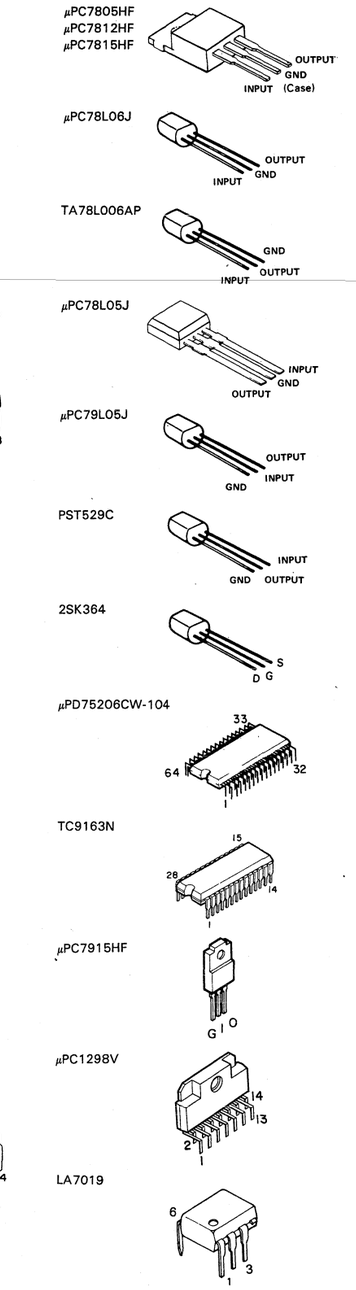
(X25-3610-81)
IC 201 : μPD75206CW
IC 202 : LC7565
IC 203 : PST529C
IC 204 : TC74HC123P

FL 201 : FIP17AMW.25
A201 : SPS-403









(X25-3610-81)

IC 201	: μPD75206CW-104	Q201,203		D201~203, 205, 208~210	
IC 202	: LC7565		: 2SC945(A)(Q,P)		: HSS104 or ISS133
1740S(Q,R) IC 203	: PST529C		or 2SC1740S(Q,R)	D204	: RD9.1ES(B2) or HZS9.1N(B2)
IC 204	: TC74HC123P	Q202	: 2SD882(Q,P)	D206	: RD5.1ES(B2) or HZS5.1N(B2)
		Q204	: 2SA733(A)(Q,P)	D207	: RD6.8ES(B2) or HZS6.8N(B2)
FL201	: FIP17AMW.25		or 2SA933S(Q,R)		
A201	: SPS-403	Q205	: 2SA992(F,E)		

(X13-6230-00)
D101~116 : HSS104 or ISS133

SIGNAL LINE
+B LINE
−B LINE

KA - V5000(U)(3/3)

DC voltages are as measured with a high impedance voltmeter with no signal input. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance sans signal d'entrée. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser ohne Eingangssignal gemessen. Dabei schwanden die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y08-3660-81

KA-V5000

KENWOOD

KA-V5000 KA-V5000

EXPLODED VIEW

A	ø3x8	(Bi)	: N09 - 0301 - 05
B	ø3x8		: N09 - 1515 - 05
C			: N09 - 1777 - 05
D	PR		: N29 - 0265 - 05
E	M2x4	BLK	: N30 - 2004 - 45
F	ø4x8	(Bi-Tap) BLK	: N86 - 4008 - 45
G	ø3x8	(F-Tap)	: N88 - 3008 - 46
H	ø2.6x8	(Bi-Tap)	: N89 - 2608 - 46
P	ø3x6	(Bi-Tap)	: N89 - 3006 - 46
J	ø3x8	(Bi-Tap) Ni	: N89 - 3008 - 41
K	ø3x8	(Bi-Tap) BLK	: N89 - 3008 - 45
L	ø3x8	(Bi-Tap)	: N89 - 3008 - 46
M	ø4x8	(Bi-Tap) BLK	: N89 - 4008 - 45
N	M3x8		: N09 - 0295 - 05
Q	M3x8		: N30 - 3008 - 46
R	ø3x6	(Bi)	: N09 - 0395 - 05
S	ø3x8	(F-Tap) BLK	: N88 - 3008 - 45

KA-V5000(K)

Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

＊ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			KA-V5000			
1	1A	＊	A01-1773-01	METALLIC CABINET ASSY		
2	3A	＊	A20-5830-02	PANEL		
3	1B		A09-0073-08	BATTERY COVER(REMOTE CONTROL)		
4	2A	＊	A33-0110-04	REFLECTOR		
5	3A	＊	A54-0196-02	FRONT DOOR		
6	1A	＊	A70-0287-05	REMOTE CONTROLLER ASSY		
7	2A	＊	A22-1103-01	SUB PANEL		
10	3A	＊	B03-2537-03	DRESSING PLATE		
11	3A	＊	B03-2538-03	DRESSING PLATE		
12	3A	＊	B10-1022-03	FRONT GLASS		
13	3A	＊	B10-1023-04	FRONT GLASS		
-			B46-0094-03	WARRANTY CARD		
-			B46-0095-03	WARRANTY CARD		
-		＊	B50-9366-00	INSTRUCTION MANUAL		
-			B58-0223-04	CAUTION CARD (PRE-SET 120V)	U	
-			B58-0513-04	CAUTION CARD (PRESET220-240)	UE	
⚠ C1 ,2			C91-0023-05	CERAMIC 0.01UF AC250V		
14	3A	＊	D10-2322-04	ARM (R)		
15	3A	＊	D10-2323-04	ARM (L)		
⚠ 16	1D	＊	E03-0068-05	AC OUTLET		
⚠ 17	1D		E30-0685-05	AC POWER CORD		
-		＊	H01-8532-02	ITEM CARTON CASE		
-		＊	H10-3830-01	POLYSTYRENE FOAMED FIXTURE		
-			H25-0225-04	PROTECTION BAG (850X450X0.03)		
-			H25-0232-04	PROTECTION BAG (235X350X0.03)		
20	3C,3D		J02-1002-05	FOOT		
22	2C	＊	J19-3182-05	UNIT HOLDER		
23	2C	＊	J19-3183-05	UNIT HOLDER		
24	2C	＊	J19-3184-05	UNIT HOLDER		
⚠ 25	1D	＊	J42-0172-05	POWER CORD BUSHING		
26	2B	＊	K27-1976-03	KNOB (BUTTON)(VIDEO,LD)		
27	2B	＊	K27-1977-03	KNOB (BUTTON)(TAPE,AUX)		
28	3B	＊	K27-1979-03	KNOB (BUTTON)(VIDEO DUBBING)		
29	2B	＊	K27-1980-03	KNOB (BUTTON)(DIGITAL DELAY)		
30	2A	＊	K27-1981-03	KNOB (BUTTON)(SURROUND MODE)		
31	3B	＊	K27-1982-03	KNOB (BUTTON)(REAR/CENTER)		
32	3B	＊	K27-1983-03	KNOB (BUTTON)(LEVEL CONTROL)		
33	3A	＊	K27-1984-03	KNOB (BUTTON)(BALANCE)		
34	3A	＊	K27-1986-04	KNOB (BUTTON)(PULL OPEN)		
35	2A	＊	K29-3400-04	KNOB (POWER)		
36	3B	＊	K29-3702-03	KNOB ASSY (VOLUM CONTROL)		
⚠ 40	1B	＊	L01-8726-05	POWER TRANSFORMER		
A	1A		N09-0301-05	TAPTITE SCREW (3X8)		
B	3C		N09-1515-05	TAPPING SCREW (3X8)		
C	1C		N09-1777-05	SEMS (TAPTITE SCREW)		
D	2D	＊	N29-0265-05	PUSH RIVET		
R	3A		N09-0395-05			
⚠ 45	1D		S31-2126-05	SLIDE SWITCH (POWER TYPE)		

E: Scandinavia & Europe **K**: USA **P**: Canada
U: PX(Far East, Hawaii) **T**: England **M**: Other Areas
UE: AAFES(Europe) **X**: Australia

⚠ indicates safety critical components.

KA-V5000

PARTS LIST

＊ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
			POWER SUPPLY UNIT (X00-2560-81)			
C1 ,2			CE04KW1H471M	ELECTRO 470UF 50WV		
C3 -6			CK45FF1H103Z	CERAMIC 0.010UF Z		
C7 ,8			CE04KW1V102M	ELECTRO 1000UF 35WV		
⚠ F1 ,2	1B,1C		F06-4029-05	FUSE (250V 4A)		
41	2B		J13-0054-05	FUSE CLIP		
⚠ SW1 ,2			S31-2127-05	SLIDE SWITCH (POWER TYPE)		
D1 ,2			1B4B41	DIODE		
			MAIN AMPLIFIER UNIT (X07-2480-81)			
C301			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C302			CC45FSL1H470J	CERAMIC 47PF J		
C303			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C304			CC45FSL1H470J	CERAMIC 47PF J		
C305			CE04KW1V100M	ELECTRO 10UF 35WV		
C306			CF92FV1H123J	MF 0.012UF J		
C307,308			CC45FSL1H470J	CERAMIC 47PF J		
C309			CF92FV1H222J	MF 2200PF J		
C310			CE04KW1V100M	ELECTRO 10UF 35WV		
C311			CC45FSL1H331J	CERAMIC 330PF J		
C312			CF92FV1H153J	MF 0.015UF J		
C313			CF92FV1H222J	MF 2200PF J		
C314			CF92FV1H153J	MF 0.015UF J		
C315			CC45FSL1H331J	CERAMIC 330PF J		
C316			CE04KW1V100M	ELECTRO 10UF 35WV		
C317			CF92FV1H152J	MF 1500PF J		
C318			CF92FV1H123J	MF 0.012UF J		
C319		＊	C90-1349-05	NP-ELEC 1UF 50WV		
C320,321			CE04KW1C101M	ELECTRO 100UF 16WV		
C323			CF92FV1H332J	MF 3300PF J		
C325		＊	CC45FSL1H330D	CERAMIC 33PF D		
C326		＊	CE04KW1H101M	ELECTRO 100UF 50WV		
C327			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C328,329			CC45FSL1H220J	CERAMIC 22PF J		
C330			CE04KW1V100M	ELECTRO 10UF 35WV		
C331			CF92FV1H822J	MF 8200PF J		
C332-334			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C335			CE04KW1C101M	ELECTRO 100UF 16WV		
C336			CE04KW1V100M	ELECTRO 10UF 35WV		
C337			CC45FSL1H470J	CERAMIC 47PF J		
C338			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C339			CE04KW1C101M	ELECTRO 100UF 16WV		
C340			CF92FV1H473J	MF 0.047UF J		
C341			CF92FV1H103J	MF 0.010UF J		
C342			CE04KW1V100M	ELECTRO 10UF 35WV		
C343			CE04KW1H0R1M	ELECTRO 0.1UF 50WV		
C344			CE04KW1HR33M	ELECTRO 0.33UF 50WV		
C345			CF92FV1H472J	MF 4700PF J		
C346			CE04KW1C101M	ELECTRO 100UF 16WV		
C347			CF92FV1H273J	MF 0.027UF J		
C348			CF92FV1H562J	MF 5600PF J		
C349			CE04KW1C101M	ELECTRO 100UF 16WV		

E: Scandinavia & Europe **K**: USA **P**: Canada
U: PX(Far East, Hawaii) **T**: England **M**: Other Areas
UE: AAFES(Europe) **X**: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

	Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
	C350			CE04KW1V100M	ELECTRO 10UF 35WV		
	C352			CE04KW1C101M	ELECTRO 100UF 16WV		
	C353			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
	C354			CE04KW1A470M	ELECTRO 47UF 10WV		
	C355			CE04KW1C101M	ELECTRO 100UF 16WV		
	C356			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
	C357,358			CE04KW1A470M	ELECTRO 47UF 10WV		
	C359-361			CE04KW1V100M	ELECTRO 10UF 35WV		
	C362			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
	C363,364			CE04KW1C101M	ELECTRO 100UF 16WV		
	C365			CE04KW1V100M	ELECTRO 10UF 35WV		
	C366			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
	C367			CC45FSL1H101J	CERAMIC 100PF J		
	C368			CE04KW1V100M	ELECTRO 10UF 35WV		
	C369			CC45FSL1H101J	CERAMIC 100PF J		
	C370			CE04KW1V100M	ELECTRO 10UF 35WV		
	C371,372			CC45FSL1H101J	CERAMIC 100PF J		
	C373			CE04KW1H100M	ELECTRO 10UF 50WV		
	C374			CE04KW1C101M	ELECTRO 100UF 16WV		
	C375			CC45FSL1H221J	CERAMIC 220PF J		
	C376			CK45FB1H102K	CERAMIC 1000PF K		
	C401,402			CE04KW1H010M	ELECTRO 1.0UF 50WV		
	C403,404			CC45FSL1H221J	CERAMIC 220PF J		
	C405,406			CC45FSL1H220J	CERAMIC 22PF J		
	C407,408			CC45FSL1H330J	CERAMIC 33PF J		
	C409,410			CF92FV1H683J	MF 0.068UF J		
	C411,412			CF92FV1H104J	MF 0.10UF J		
	C413			CE04KW1H100M	ELECTRO 10UF 50WV		
	C414		*	C90-1396-05	NP-ELEC 33UF 10WV		
	C415			CE04KW1C470M	ELECTRO 47UF 16WV		
	C416			CE04KW1J4R7M	ELECTRO 4.7UF 63WV		
	C417,418		*	C90-1775-05	ELECTRO 10000UF 63WV		
⚠	C421			C91-0023-05	CERAMIC 0.01UF AC250V		
	C422			CE04KW1H470M	ELECTRO 47UF 50WV		
	C423			CE04KW1V100M	ELECTRO 10UF 35WV		
	C424			CE04KW1H471M	ELECTRO 470UF 50WV		
	C426			CE04KW1H100M	ELECTRO 10UF 50WV		
	C427,428			CE04KW1C220M	ELECTRO 22UF 16WV		
⚠	C429			C91-0023-05	CERAMIC 0.01UF AC250V		
	C430,431			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
	42	2D	*	E21-0021-05	BINDING POST		
	PJ401	1C	*	E11-0195-05	MINIATURE PHONE JACK(SYSTEM CO		
	PJ402	1C		E13-0229-05	PHONO JACK (2P) (PRE OUT)		
	SP401	1C		E20-0459-05	LOCK TERMINAL BOARD (FRONT SP)		
	L401,402		*	L39-0188-05	PHASE-COMPENSATION COIL		
	LPF301		*	L79-0786-05	LC FILTER		
⚠	PT401		*	L01-8742-05	POWER TRANSFORMER		
	X301			L77-1140-15	CRYSTAL RESONATOR		
	N			N09-0295-05	HEXAGON HEAD BOLT(M3X8,+)		
	R418-421			RD14DB2H100J	SMALL-RD 10 J 1/2W		
	R422-425			R92-0167-05	METAL-PLATE. 0.22 K 5W		
	R434,435			RD14DB2H100J	SMALL-RD 10 J 1/2W		
	R436,437			RS14KB3D100J	FL-PROOF RS 10 J 2W		
	R444			RS14KB3D681J	FL-PROOF RS 680 J 2W		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

KA-V5000

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
R451		*	RS14KB3A562J	FL-PROOF RS 5.6K J 1W		
R454		*	RD14DB2H120J	SMALL-RD 12 J 1/2W		
VR301,302		*	R05-3012-05	POTENTIOMETER		
VR401,402			R12-1083-05	TRIMMING POT.		
RY401			S51-2078-05	MAGNETIC RELAY		
⚠ RY402			S51-1036-05	MAGNETIC RELAY		
D301			HSS104	DIODE		
D301			1SS133	DIODE		
D302,303			HZS8.2N(B2)	ZENER DIODE		
D302,303			RD8.2ES(B2)	ZENER DIODE		
D403			RD24F(B)	ZENER DIODE		
D405			S5566B	DIODE		
D406		*	RD30F(B)	ZENER DIODE		
⚠ D407			D5FB20*1	DIODE		
D410-414			S5566B	DIODE		
D423-429			HSS104	DIODE		
D423-429			1SS133	DIODE		
IC301-303			NJM4558D-A	IC(OP AMP X2)		
IC304		*	NJM082D	IC(FET OP AMP X2)		
IC305,306			NJM4558D-A	IC(OP AMP X2)		
IC307		*	YM3411	IC(DIGITAL DELAY IC)		
IC308			NE645N	IC(DOLBY B PROCESSOR)		
IC309		*	NJU4052BD	IC(4CH MPX/DE-MPX)		
IC310			TC9154AP	IC(2CH ELECTRONIC VOLUME)		
IC311			NJM4558D-A	IC(OP AMP X2)		
IC312			UPC78L05J	IC(VOLTAGE REGULATOR/ +5V)		
IC313		*	UPC79L05J	IC(VOLTAGE REGULATOR/ -5V)		
IC401,402		*	UPC1298V	IC(POWER AMP DRIVER)		
IC403			UPC1237HA	IC(POWER AMP)		
IC404			UPC7805HF	IC(VOLTAGE REGULATOR/ +5V)		
Q301,302			2SA733(A)(Q,P)	TRANSISTOR		
Q301,302			2SA933S(Q,R)	TRANSISTOR		
Q303,304			DTC124EN	DIGITAL TRANSISTOR		
Q401,402			2SC2878(B)	TRANSISTOR		
Q403,404			2SD414	TRANSISTOR		
⚠ Q405,406			2SC3280*5	TRANSISTOR		
⚠ Q407,408			2SA1301*5	TRANSISTOR		
Q409,410			2SC2631(R,S)	TRANSISTOR		
Q411			2SA992(F,E)	TRANSISTOR		
Q413			2SC1740S(Q,R)	TRANSISTOR		
Q413			2SC945(A)(Q,P)	TRANSISTOR		
Q414			2SD1266(Q,P)	TRANSISTOR		
Q415			2SB941(Q,P)	TRANSISTOR		

AUDIO UNIT (X09-2890-81)

C701-704			CC45FSL1H221J	CERAMIC	220PF	J		
C707-716			CC45FSL1H221J	CERAMIC	220PF	J		
C717-722			CE04KW1V100M	ELECTRO	10UF	35WV		
C729,730			CK45FF1H473Z	CERAMIC	0.047UF	Z		
C731,732			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C733,734			CE04KW1V100M	ELECTRO	10UF	35WV		
C735-737			CE04KW1C101M	ELECTRO	100UF	16WV		
C738			CF92FV1H104J	MF	0.10UF	J		
C739,740			CF92FV1H223J	MF	0.022UF	J		
C741,742			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C743,744			CC45FSL1H221J	CERAMIC 220PF J		
C745,746			CE04KW1C101M	ELECTRO 100UF 16WV		
C747,748			CC45FSL1H060D	CERAMIC 6.0PF D		
C749,750			CC45FSL1H150J	CERAMIC 15PF J		
C751,752			CF92FV1H473J	MF 0.047UF J		
C753,754			CF92FV1H104J	MF 0.10UF J		
C755			CE04KW1C101M	ELECTRO 100UF 16WV		
C756			CC45FSL1H150J	CERAMIC 15PF J		
C757			CC45FSL1H060D	CERAMIC 6.0PF D		
C758			CF92FV1H473J	MF 0.047UF J		
C759			CF92FV1H104J	MF 0.10UF J		
C760			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C761			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C762,763			CC45FSL1H221J	CERAMIC 220PF J		
C764,765			CE04KW1C470M	ELECTRO 47UF 16WV		
C766,767			CF92FV1H562J	MF 5600PF J		
C768,769			CF92FV1H152J	MF 1500PF J		
C770,771			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C772,773			CE04KW1C101M	ELECTRO 100UF 16WV		
C774			CK45FF1H103Z	CERAMIC 0.010UF Z		
C775-778			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C781-790			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C794			CF92FV1H223J	MF 0.022UF J		
C796			CF92FV1H683J	MF 0.068UF J		
C797			CK45FF1H103Z	CERAMIC 0.010UF Z		
C798			CE04KW1C471M	ELECTRO 470UF 16WV		
C799,800			CE04KW1E221M	ELECTRO 220UF 25WV		
C801,802		*	C90-1776-05	ELECTRO 4700UF 35WV		
C803,804			CF92FV1H104J	MF 0.10UF J		
C805			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C806			CC45FSL1H221J	CERAMIC 220PF J		
C808,809			CK45FF1H103Z	CERAMIC 0.010UF Z		
C810			CF92FV1H333J	MF 0.033UF J		
C811-813			CK45FB1H102K	CERAMIC 1000PF K		
C814-816			CE04KW1H4R7M	ELECTRO 4.7UF 50WV		
C817,818			CK45FB1H102K	CERAMIC 1000PF K		
PJ701	2D		E13-0497-05	PHONO JACK (4P) TUNER,CD		
PJ703,704	2D		E13-0814-05	PHONO JACK (8P) TAPE,VIDEO		
PJ705	2D		E13-0229-05	PHONO JACK (2P) PHONO		
SP701	2D		E20-0475-05	LOCK TERMINAL BOARD(REAR SP)		
SP702		*	E20-0236-05	LOCK TERMINAL BOARD(CENTER SP)		
L701-703		*	L39-0188-05	PHASE-COMPENSATION COIL		
N			N09-0295-05	HEXAGON HEAD BOLT(M3X8,+)		
R755,756			RD14DB2H151J	SMALL-RD 150 J 1/2W		
R799-802			R92-0167-05	METAL-PLATE 0.22 K 5W		
R809-812			RD14DB2H100J	SMALL-RD 10 J 1/2W		
R821			RS14KB3D681J	FL-PROOF RS 680 J 2W		
R822,823			RS14KB3D561J	FL-PROOF RS 560 J 2W		
R824			RS14KB3D681J	FL-PROOF RS 680 J 2W		
R838,839			R92-0167-05	METAL-PLATE 0.22 K 5W		
R842,843			RD14DB2H100J	SMALL-RD 10 J 1/2W		
R884			RS14KB3D681J	FL-PROOF RS 680 J 2W		
VR701-703			R12-1083-05	TRIMMING POT.		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
RY701,702			S51-2078-05	MAGNETIC RELAY		
D701,702			HZS7.5S(B)	ZENER DIODE		
D701,702			RD7.5JS(B)	ZENER DIODE		
D703			HZS5.1N(B2)	ZENER DIODE		
D703			RD5.1ES(B2)	ZENER DIODE		
D704-707			HSS104	DIODE		
D704-707			1SS133	DIODE		
D710			RD24F(B)	ZENER DIODE		
D712			S4VB20	DIODE		
D713,714			HSS104	DIODE		
D713,714			1SS133	DIODE		
D715			RD24F(B)	ZENER DIODE		
IC701			TC9163N	IC(BILATERAL SWITCH X16)		
IC702-704			LC4066BH	IC(BILATERAL SWITCH X4)		
IC705			NJM4558D-A	IC(OP AMP X2)		
IC706		*	UPD74HC239C	IC(2-4 X2 LINE DECODER/DE-MPX)		
IC707,708		*	UPC1225H	IC(POWER AMP DRIVER)		
IC709			UPC7812HF	IC(VOLTAGE REGULATOR/ +12V)		
IC710			UPC7815HF	IC(VOLTAGE REGULATOR/ +15V)		
IC711			UPC7915HF	IC(VOLTAGE REGUATOR/ -15V)		
IC712		*	UPC1225H	IC(POWER AMP DRIVER)		
IC713,714			NJM4558D-A	IC(OP AMP X2)		
IC716-721			NJM4558D-A	IC(OP AMP X2)		
Q701			DTA114ES	DIGITAL TRANSISTOR		
Q702			2SA733(A)(Q,P)	TRANSISTOR		
Q702			2SA933S(Q,R)	TRANSISTOR		
Q703-708			DTC124EN	DIGITAL TRANSISTOR		
Q709			DTA114ES	DIGITAL TRANSISTOR		
Q710			2SA733(A)(Q,P)	TRANSISTOR		
Q710			2SA933S(Q,R)	TRANSISTOR		
Q711,712			2SC2878(B)	TRANSISTOR		
Q713,714			2SD414	TRANSISTOR		
⚠ Q715,716			2SD613*1	TRANSISTOR		
⚠ Q717,718			2SB633*1	TRANSISTOR		
Q719,720			2SC1845(F,E)	TRANSISTOR		
Q721			2SA733(A)(Q,P)	TRANSISTOR		
Q721			2SA933S(Q,R)	TRANSISTOR		
Q722			DTC124EN	DIGITAL TRANSISTOR		
Q723			2SC2878(B)	TRANSISTOR		
Q724			2SD414	TRANSISTOR		
⚠ Q725			2SD613*1	TRANSISTOR		
⚠ Q726			2SB633*1	TRANSISTOR		
Q727			2SC1845(F,E)	TRANSISTOR		
SWITCH UNIT (X13-6230-00)						
HJ001	1B,1C	*	E11-0196-05	PHONE JACK		
R1 ,2			RS14DB3D561J	FL-PROOF RS 560 J 2W		
S101-144			S40-1064-05	PUSH SWITCH		
D101-116			HSS104	DIODE		
D101-116			1SS133	DIODE		
VIDEO CONTROL UNIT (X14-2590-81)						
LED501		*	B30-1280-05	LED		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht gellefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
C1			CE04KW1C101M	ELECTRO	100UF	16WV		
C2			CE04KW1A471M	ELECTRO	470UF	10WV		
C3			CF92FV1H103J	MF	0.010UF	J		
C4			CE04KW1C470M	ELECTRO	47UF	16WV		
C5			CE04KW1A471M	ELECTRO	470UF	10WV		
C6			CE04KW1C331M	ELECTRO	330UF	16WV		
C7 ,8			CE04KW1C470M	ELECTRO	47UF	16WV		
C9			CE04KW1A471M	ELECTRO	470UF	10WV		
C10			CE04KW1C470M	ELECTRO	47UF	16WV		
C11			CE04KW1A471M	ELECTRO	470UF	10WV		
C12			CE04KW1C470M	ELECTRO	47UF	16WV		
C13 -15			CF92FV1H103J	MF	0.010UF	J		
C16			CE04KW1C101M	ELECTRO	100UF	16WV		
C17 ,18			CF92FV1H103J	MF	0.010UF	J		
C19			CE04KW1C470M	ELECTRO	47UF	16WV		
C20			CF92FV1H103J	MF	0.010UF	J		
C21 ,22			CE04KW1C470M	ELECTRO	47UF	16WV		
C23 -25			CE04KW1C101M	ELECTRO	100UF	16WV		
C26			CE04KW1C470M	ELECTRO	47UF	16WV		
C27			CE04KW1V100M	ELECTRO	10UF	35WV		
C28 ,29			CC45FSL1H330J	CERAMIC	33PF	J		
C30 ,31			CC45FCH1H270J	CERAMIC	27PF	J		
C32			CE04KW1C101M	ELECTRO	100UF	16WV		
C33			CQ09FS1H561J	POLYSTY	560PF	J		
C34			CF92FV1H104J	MF	0.10UF	J		
C35			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C36			CF92FV1H223J	MF	0.022UF	J		
C37			CF92FV1H332J	MF	3300PF	J		
C38			CQ09FS1H561J	POLYSTY	560PF	J		
C39			CE04KW1A471M	ELECTRO	470UF	10WV		
C40			CE04KW1H0R1M	ELECTRO	0.1UF	50WV		
C41			CF92FV1H103J	MF	0.010UF	J		
C42			CE04KW1V4R7M	ELECTRO	4.7UF	35WV		
C43			CK45FB1H102K	CERAMIC	1000PF	K		
C44			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C45			CC45FSL1H100D	CERAMIC	10PF	D		
C501,502			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C503-506			CE04KW1V100M	ELECTRO	10UF	35WV		
C507			CE04KW1C101M	ELECTRO	100UF	16WV		
C508			CE04KW1E101M	ELECTRO	100UF	25WV		
C509,510			CE04KW1C101M	ELECTRO	100UF	16WV		
C511,512			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C513,514			CF92FV1H823J	MF	0.082UF	J		
C515,516			CE04KW1HR47M	ELECTRO	0.47UF	50WV		
C517,518			CE04KW1HR33M	ELECTRO	0.33UF	50WV		
C519,520			CF92FV1H223J	MF	0.022UF	J		
C521,522			CF92FV1H184J	MF	0.18UF	J		
C523,524			CF92FV1H472J	MF	4700PF	J		
C525,526			CF92FV1H473J	MF	0.047UF	J		
C527,528			CF92FV1H122J	MF	1200PF	J		
C529,530			CC45FSL1H101J	CERAMIC	100PF	J		
C531,532			CF92FV1H123J	MF	0.012UF	J		
C533-540			CE04KW1V100M	ELECTRO	10UF	35WV		
C541,542			CC45FSL1H331J	CERAMIC	330PF	J		
C543,544			CE04KW1C101M	ELECTRO	100UF	16WV		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

KA-V5000

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
C545,546			CE04KW1V100M	ELECTRO 10UF 35WV		
C547,548			CE04KW1V4R7M	ELECTRO 4.7UF 35WV		
C549			CC45FSL1H101J	CERAMIC 100PF J		
C560			CC45FSL1H101J	CERAMIC 100PF J		
C561,562			CE04KW1C101M	ELECTRO 100UF 16WV		
C563,564			CE04KW1V100M	ELECTRO 10UF 35WV		
C565			CE04KW1C101M	ELECTRO 100UF 16WV		
C566-569			CE04KW1C220M	ELECTRO 22UF 16WV		
C570,571			CE04KW1C101M	ELECTRO 100UF 16WV		
C572			CF92FV1H224J	MF 0.22UF J		
C573			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C574			CF92FV1H333J	MF 0.033UF J		
C575			CF92FV1H823J	MF 0.082UF J		
C576			CE04KW1H2R2M	ELECTRO 2.2UF 50WV		
C577,578			CE04KW1C101M	ELECTRO 100UF 16WV		
C579			CK45FB1H821K	CERAMIC 820PF K		
C580,581			CE04KW1V100M	ELECTRO 10UF 35WV		
C583-585			CE04KW1V100M	ELECTRO 10UF 35WV		
C589			CF92FV1H103J	MF 0.010UF J		
C590			CE04KW1V100M	ELECTRO 10UF 35WV		
C591			CF92FV1H102J	MF 1000PF J		
C592			CF92FV1H223J	MF 0.022UF J		
C593			CE04KW1C101M	ELECTRO 100UF 16WV		
C594			CE04KW1V100M	ELECTRO 10UF 35WV		
C595			CF92FV1H223J	MF 0.022UF J		
C596			CE04KW1C101M	ELECTRO 100UF 16WV		
C597			CE04KW1V100M	ELECTRO 10UF 35WV		
C598			CF92FV1H473J	MF 0.047UF J		
C599-602			CK45FF1H103Z	CERAMIC 0.010UF Z		
C901-904			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C905,906			CF92FV1H273J	MF 0.027UF J		
C907-913			CE04KW1H010M	ELECTRO 1.0UF 50WV		
C914,915			CF92FV1H124J	MF 0.12UF J		
C916,917			CF92FV1H182J	MF 1800PF J		
C918,919			CF92FV1H682J	MF 6800PF J		
C920			CC45FSL1H221J	CERAMIC 220PF J		
C921,922			CK45FB1H471K	CERAMIC 470PF K		
C923,924			CF92FV1H473J	MF 0.047UF J		
C925,926			CF92FV1H124J	MF 0.12UF J		
C927			CE04KW1V100M	ELECTRO 10UF 35WV		
C928			CC45FSL1H470J	CERAMIC 47PF J		
C929,930			CE04KW1C101M	ELECTRO 100UF 16WV		
C931,932			CE04KW1V100M	ELECTRO 10UF 35WV		
C933,934			CE04KW1C101M	ELECTRO 100UF 16WV		
C935			CE04KW1V100M	ELECTRO 10UF 35WV		
PJ1		*	E13-0478-05	PHONO JACK		
PJ2			E13-0309-05	PHONO JACK		
L1		*	L40-1501-17	SMALL FIXED INDUCTOR(15UH,K)		
X1			L77-1131-05	CRYSTAL RESONATOR		
IP501,502		*	R90-0834-05	MULTIPLE RESISTOR(1.0M X7)		
R565			RS14KB3A100J	FL-PROOF RS 10 J 1W		
VR1			R12-3126-05	TRIMMING POT.		
VR501		*	R29-4017-05	POTENTIOMETER		
VR704,705		*	R05-4007-05	POTENTIOMETER		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
D1			HSS104	DIODE		
D1			1SS133	DIODE		
D2			HZS6.2N(B2)	ZENER DIODE		
D2			RD6.2ES(B2)	ZENER DIODE		
D3 -6			HSS104	DIODE		
D3 -6			1SS133	DIODE		
D7			HZS6.2N(B2)	ZENER DIODE		
D7			RD6.2ES(B2)	ZENER DIODE		
D8			HZS5.1N(B2)	ZENER DIODE		
D8			RD5.1ES(B2)	ZENER DIODE		
D9 ,10			HSS104	DIODE		
D9 ,10			1SS133	DIODE		
D11			HZS5.1N(B2)	ZENER DIODE		
D11			RD5.1ES(B2)	ZENER DIODE		
D12			HSS104	DIODE		
D12			1SS133	DIODE		
D501,502			HZS6.2N(B2)	ZENER DIODE		
D501,502			RD6.2ES(B2)	ZENER DIODE		
D503,504			HZS6.8N(B2)	ZENER DIODE		
D503,504			RD6.8ES(B2)	ZENER DIODE		
D506-509			HSS104	DIODE		
D506-509			1SS133	DIODE		
D510,511			HZS6.2N(B2)	ZENER DIODE		
D510,511			RD6.2ES(B2)	ZENER DIODE		
D901-909			HSS104	DIODE		
D901-909			1SS133	DIODE		
IC1		*	TA7348P	IC(3-INPUT SWITCH)		
IC2			TA7347P	IC(2-INPUT SWITCH)		
IC3		*	TA7348P	IC(3-INPUT SWITCH)		
IC4		*	LA7019	IC(ELECTRONIC SWITCH)		
IC5		*	MB88323A-K1	IC(DISPLAY CONTROLLER)		
IC5		*	MB88323A-K2	IC(DISPLAY CONTROLLER)		
IC6		*	LVA516	IC(SYNC SEPARATION)		
IC501,502			M5227P	IC(5CH GRAPHIC EQUALIZER)		
IC503			LC7522	IC(7CH GRAPHIC EQUALIZER)		
IC504			LC4066BH	IC(BILATERAL SWITCH X4)		
IC505			LB1630	IC(MOTOR DRIVER)		
IC506-508			NJM4558D-A	IC(OP AMP X2)		
IC509			TC9170AP	IC(GRAPHIC EQULIZER)		
IC510			TC9154AP	IC(2CH ELECTRONIC VOLUME)		
IC511			NJM4558D-A	IC(OP AMP X2)		
IC512		*	UPC78L06J	IC(VOLTAGE REGULATOR/ +6V)		
IC901-905			NJM4558D-A	IC(OP AMP X2)		
Q1 -4			2SC1740S(Q,R)	TRANSISTOR		
Q1 -4			2SC945(A)(Q,P)	TRANSISTOR		
Q5			2SA733(A)(Q,P)	TRANSISTOR		
Q5			2SA933S(Q,R)	TRANSISTOR		
Q6 -10			2SC1740S(Q,R)	TRANSISTER		
Q6 -10			2SC945(A)(Q,P)	TRANSISTOR		
Q11			2SA733(A)(Q,P)	TRANSISTOR		
Q11			2SA933S(Q,R)	TRANSISTOR		
Q12 ,13			2SC1740S(Q,R)	TRANSISTER		
Q12 ,13			2SC945(A)(Q,P)	TRANSISTOR		
Q14			2SK364(GR,BL)	FET		
Q15			2SC1740S(Q,R)	TRANSISTER		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

KA-V5000

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格			Destination 仕向	Remarks 備考
Q15			2SC945(A)(Q,P)	TRANSISTOR				
Q501,502			2SC1740S(Q,R)	TRANSISTER				
Q501,502			2SC945(A)(Q,P)	TRANSISTOR				
Q503			2SA733(A)(Q,P)	TRANSISTOR				
Q503			2SA933S(Q,R)	TRANSISTOR				
Q504,505			DTC124EN	DIGITAL TRANSISTOR				
Q506,507			2SC1740S(Q,R)	TRANSISTER				
Q506,507			2SC945(A)(Q,P)	TRANSISTOR				
Q903,904			2SC1740S(Q,R)	TRANSISTER				
Q903,904			2SC945(A)(Q,P)	TRANSISTOR				
Q906			TA78L006AP	IC(VOLTAGE REGULATOR/ +6V)				
DISPLAY UNIT (X25-3610-81)								
C201,202			CC45FSL1H330J	CERAMIC	33PF	J		
C203		*	C91-1404-05	ELECTRO	0.047UF	5.5WV		
C204			CK45FB1H102K	CERAMIC	1000PF	K		
C205			CE04DW1H010M	ELECTRO	1.0UF	50WV		
C206			CE04DW1H100M	ELECTRO	10UF	50WV		
C207			CF92FV1H152J	MF	1500PF	J		
C208		*	CE04DW1V4R7M	ELECTRO	4.7UF	35WV		
C209			CE04DW1A470M	ELECTRO	47UF	10WV		
C210			CE04DW1A101M	ELECTRO	100UF	10WV		
C211			CE04DW1C220M	ELECTRO	22UF	16WV		
C212			CE04DW1A470M	ELECTRO	47UF	10WV		
C213-215			CK45FF1H103Z	CERAMIC	0.010UF	Z		
C216			CK45FF1H473Z	CERAMIC	0.047UF	Z		
X201			L77-1118-05	CRYSTAL RESONATOR				
IR201			R90-0202-05	MULTI-COMP	47KX4	J 1/6W		
S401			S40-1064-05	PUSH SWITCH				
A201			SPS-403	IC(REMOTE SENSOR)				
D201-203			HSS104	DIODE				
D201-203			1SS133	DIODE				
D204		*	HZS9.1N(B2)	ZENER DIODE				
D204			RD9.1ES(B2)	ZENER DIODE				
D205			HSS104	DIODE				
D205			1SS133	DIODE				
D206			HZS5.1N(B2)	ZENER DIODE				
D206			RD5.1ES(B2)	ZENER DIODE				
D207			HZS6.8N(B2)	ZENER DIODE				
D207			RD6.8ES(B2)	ZENER DIODE				
D208-210			HSS104	DIODE				
D208-210			1SS133	DIODE				
FL201		*	FIP17AMW25	FLUORESCENT INDICATOR TUBE				
IC201		*	UPD75206CW-104	IC(MICROPROCESSOR))				
IC202			LC7565	IC(GRAPHIC EQ FL DISPLAY DR)				
IC203			PST529C	IC(SYSTEM RESET)				
IC204			TC74HC123P	IC(DULAL MONO MULTI)				
Q201			2SC1740S(Q,R)	TRANSISTOR				
Q201			2SC945(A)(Q,P)	TRANSISTOR				
Q202			2SD882(Q,P)	TRANSISTOR				
Q203			2SC1740S(Q,R)	TRANSISTOR				
Q203			2SC945(A)(Q,P)	TRANSISTOR				
Q204			2SA733(A)(Q,P)	TRANSISTOR				

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

PARTS LIST

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Telle ohne **Parts No.** werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名／規格	Destination 仕向	Remarks 備考
Q204			2SA933S(Q,R)	TRANSISTOR		
Q205			2SA992(F,E)	TRANSISTOR		

E: Scandinavia & Europe K: USA P: Canada
U: PX(Far East, Hawaii) T: England M: Other Areas
UE: AAFES(Europe) X: Australia

⚠ indicates safety critical components.

KA-V5000

SPECIFICATIONS

<Audio Section: Front>

Power Output

70 watts per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz with no more than 0.09% total harmonic distortion.

Total harmonic distortion
LINE input to speaker output
(20 Hz to 20,000 Hz) ...0.09% at 70 W into 8 ohms
(1 kHz) .....0.05% at 70 W into 8 ohms
Frequency response .....10 Hz to 100 kHz/+0 dB, −3 dB
PHONO
(RIAA standard curve) ..20 Hz to 20 kHz/±0.3 dB
Input sensitivity/impedance
PHONO (MM) .....2.5 mV 47 kohms
Except PHONO .....150 mV 47 kohms
Signal to noise ratio (IHF-A)
PHONO (MM) .....70 dB (2.5 mV)
Except PHONO .....90 dB (150 mV)
Output level/impedance
TAPE REC (pin) .....150 mV 2.2 kohms
PRE OUT .....1 V 1 kohm
Graphic equalizer
Center frequency .....60 Hz, 250 Hz, 1 kHz, 4 kHz, 16 kHz
Control range .....±12 dB

<Audio Section: Center>

Power Output
20 watts at 8 ohms from 20 Hz to 100 Hz.
Graphic equalizer
Center frequency .....60 Hz, 150 Hz
Control range .....±12 dB

<Audio Section: Rear>

Power Output

20 watts per channel minimum RMS, both channels driven at 8 ohms from 20 Hz to 20,000 Hz.

<Video Section>

Input sensitivity/impedance .....1 Vp-p at 75 ohms
Output level/impedance
REC OUT .....1 Vp-p at 75 ohms
Frequency Response
(Monitor out) .....5 Hz to 6 MHz/+0 dB, −3 dB
Signal to noise ratio
(Monitor out) .....65 dB

<General>

Power consumption .....250 W
Dimensions .....W: 440 mm (17-5/16″)
H: 127 mm (5″)
D: 413 mm (16-1/4″)
Weight (Net) .....11 kg (24.2 lb)

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui doncerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige, Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

Note:
Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the PX (U) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION
Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

KENWOOD U.S.A. CORPORATION
2201 East Dominguez Street, Long Beach, CA 90810;
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

KENWOOD ELECTRONICS CANADA INC.
P.O. Box 1075 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

KENWOOD ELECTRONICS BENELUX N.V.
Mechelsesteenweg 418 B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH
Rembrucker-Str. 15, 6056 Heusenstamm, West Germany

TRIO-KENWOOD FRANCE S.A.
Hi-Fi·VIDEO·CAR Hi-Fi
13, Boulevard Ney, 75018 Paris, France

TRIO-KENWOOD U.K. LTD.
17 Bristol Road, The Metropolitan Centre, Greenford, Middx. UB6 8UP England

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.
4E Woodcock Place, Lane Cove, N.S.W. 2066, Australia

KENWOOD & LEE ELECTRONICS, LTD.
Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong